GOLD MEDAL, VIENNA, 1883.

ORIGINALITY AND RELIABILITY (COMPONENTS) RECEIVED HIGHEST AWARDS-MEDALS AND DIPLOMAS-OVER

PHILADELPHIA, 1876, MELBOURNE, 1880, NEW YORK, 1881,

ALL EUROPEAN AND AMERICAN COMPETITORS. PARIS, 1878, NEW YORK, 1880, ATLANTA, 1881,

NEW YORK, 1879, MATANZAS, 1881, CHARLESTON, 1882.

SEABURY & JOHNSON,

MANUFACTURERS OF

India Rubber, Medicinal, Adhesive, PLASTERS Kid, Leather, Mustard, Spread, Bunion, Corn, Court, Pharmaceutical and Surgical

Of every description, in the most approved form. Also, Absorbent, Borated, Salicylated and every description, in the most approved form. Also, Absorbent, Borated, Salicylated at Carbolated Cotton, Antiseptic Gauze, Bandages. Cotton Wool, Gutta Percha Tissue, Lint, Oil Silk and Muslin, and every variety of Surgical and Antiseptic Dressings.

SPECIALTY: Pharmacopoeia & Surgical Plasters, in India Rubber Combination, Porous & Spread.

Office & Salesroom, 1 & 2 Australian Ave., London, E. G., England.

TERMS FOR 1882.

MONTHLY SETTLEMENTS. ONE PER CENT. FOR CASH WILL BE ALLOWED, PROVIDED BILLS ARE REMITTED FOR WITHIN TEN DAYS FROM DATE OF SHIPMENT, NOT OTHERWISE.

DISCOUNTS:-Goods to be scleeted from our List at pleasure.

Orders amounting to £25, nett, will be subject to 20 per cente discount. 10, 5, Orders under £5, nett, 10 long prices will be charged without discount.

CARRIAGE ALLOWED OR PREPAID ON £25, NETT, ORDERS ONLY.

EVERY ARTICLE WARRANTED.

Pharmacopœia & Medicinal India Rubber Porous Plasters. Packed two dozen in a box. Size, 5x71/4 inches

Arnica Belladonna Capsicum..... Oplum
Poor Man's
Strengthening
11 10
Witch Hazel
Special Formula made to order. A full line of Plain
Spread and Porous at same rates. 3 12 0 -0 - 0

YARD ROLLS

Pharmacopœia & Medicinal Plasters, in Rubber Combination. Porous or Plain Spread, size, 7 in. wide by 1 yard long.

Aconite and Belladonnaper dozen, 1 16 0 Belladonna Blister, Cantharidal Roborans....

BREAST PLASTERS

Belladonna, Lead & Phytolacca Decandra,
SEPARATELY OR IN COMBINATION.
One dozen in a box. 6 & 7 inches in diameter, Porous and
Plain Spread.

Mead's Adhesive Plaster,

PLIABLE AND ANTISEPTIC. 5 yd. rolls, 14 inches wide, per 5 yd. roll, 5s. 0d.
1 yd. rolls, 7 inches wide per dozen, 14 0 May also be had in Spools, 1/2, 2 and 3 inches wide.

Salicylated I. R. Adhesive Plaster.

Porous or Plain Spread, on Strong Cotton Cloth. Yard Rolls, 7 inches wide per dozen, 17s. 0d.
5 yard Rolls, 7 inches wide per roll, 6 6 May also be had in Spools, %, 1, 2 and 3 inches wide, AND

On Twilled Linen and Moleskin.

Corn and Bunion Plasters.

Mead's MEDICATED.....per dozen boxes, 8s. 0d. Each box contains one dozen Plasters.

Also a full line of Arnicated Corn and Bunion Plasters, Top Boxes, and containing each 1 gro. Corn or 1/2 gro Bunion.

COURT PLASTER.

40 different styles, elegant and Balsamic.

Surgeons' Salicylated Isinglass Plaster.

On fine, pure silk, "Flesh, White or Black."
7 inches wide, 1 yard long......per dozen, £1 2s. 0d.

Also, on Tracing Cloth and Muslin.

Mustard Plasters, Spread on Cotton Cloth.

Tins, containing to leavesper dozen, 10s. 0d. Tins, containing to leaves per do Envelopes, containing 6 leaves Envelopes, containing 3 leaves Yard Rolls, 6 inches wide Half-yard Rolls, 6 inches wide

Antiseptics and Absorbents.

A most extensive line, comprising Absorbent, Borated, Carbolated and Salicylated Cottons; Hospital and Flax Lint; Oil Silk and Muslin, Gutta Percha Tissue; Carbolated, Antiseptic, Eucalyptus and Iodoform Gauze; Roller, Flannel and Rubber Bandages, Catgut Ligature, and

Surgical Dressings of every description.

SPECIAL NOTICE.

Our New Catalogue of Specialties is ready for delivery, and contains a complete assortment of our preparations. A copy will be sent to any Chemist on application to lours very truly,

SEABURY & JOHNSON, I and 2 Australian Avenue, London, E. C.



UMNEY'S

Made from Bark of Cinchona Succirubra, as grown in Government Plantations of British India.

At the Medical International Congress, London, the Indian Bark was declared to be the bark of the future.

Extensively used in Private and Hospital Practice, on account of its Elegance, Medicinal Value, Moderate Cost. See Opinions of the Medical and Pharmaceutical Press, and testimony as to its superiority over all other Fluid Preparations of Cinchona.

FLUID EXTRAGI

OF

Price 10s. 6d. per lb.

To be obtained of all Druggists (Wholesale and Retail) in the United Kingdom.

IN ORDERING SPECIFY "UMNEY'S."

GNGHONA.

Lancet.—"An excellent preparation—contains all the alkaloids of the Bark."

Medical Times and Gazette.—"An excellent, elegant, reliable, and very convenient preparation."

Medical Press and Circular.—"Used in Hospital and private practice with the most satisfactory results."

Pharmaceutical Journal.—"Excellent preparation furnishing the constituents of the Bark in a concentrated form."

Chemist and Druggist.—"Pharmaceutically worthy of the valuable medicine which it represents."

WRIGHT, LAYMAN & UMNEY,

SOUTHWARK STREET; LONDON, S.E.

WRIGHT'S

See TESTIMONIALS of ENTIRE MEDICAL PRESS and from LEADING DERMATOLOGISTS.

The Practitioner, of September, 1881, reports a lecture entitled, "Recent Advances in the Therapeutics of Diseases of the Skin," by W. A. Jamieson, Esq., M.D., &c. The following is an abstract therefrom: — "Itching, which owes its

origin to too slow a current of blood, of which the most typical example is that seen in Eczema connected with varicose veins of the leg—but to the same category also many examples of Pruritis Scroti, Labiorum and Ani may be referred—is best relieved by

Scroti, Labiorum and Ani may be referred—is best relieved by careful flannel bandages, well applied suspensory bandages, and laxative salts or mineral waters, which unload the rectal veins by freeing the portal circulation, combined locally with weak tarry lotion, one of the best of which is Wright's Liquor Carbonis Detergens, a well-made alcoholic solution of Coal Tar, suitably diruted."

From the Lancet, Dec. 22nd, 1866:—"In our hands it has been a most effective agent in skin diseases, especially of the chronic eczematous class; and one case psoriasis, which had resisted all other kinds of treatment, speedily got well under the application of the Liquor Carbonis Detergens. We esteem it a very valuable addition to our list of skin remedies."

From the Medical Times and Gazette, January 19th, 1867:—
"We have more than once called attention to the value of this remedy in chronic eczema."

GARBONIS

Kept in stock and sold by all Druggists (Wholesale and Retail) through out the United Kingdom and Colonies.

From the British Medical Journal, Sept. 22nd, 1871:—"We have tested it, and can affirm its value as a detergent agent. We consider the Liquor is an article of great utility."

Proprietors:

W. V. WRIGHT & CO., Southwark Street, London. DETERGENS.

Send for Book Catalogue and Illustrated Price List.

LEATH & ROSS'S

HOMEOPATHIC PHARMACIES

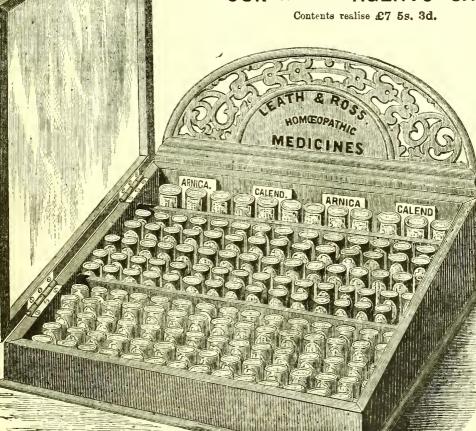
9 VERE STREET, W.,

And 5 ST. PAUL'S CHURCHYARD, E.C., LONDON.

ESTABLISHED 1835.

TRADE NOTICE-10 % Discount for Cash with Orders.

OUR £4 4s. AGENTS' CASE,



SALE.

Upwards of 1,600 of these Cases have been sent out.

WHOLESALE PRICE LIST OF MEDICINES PUT UP READY FOR SALE.

		TO ACCOUNT	FOR CASH.	1		TO ACCOUNT.	FOR CASH.
GLOBULES Sixpenny Tubes	•••	3/0 doz.	2/9 dox.	PILULES Sixpenny Bottles	•••	3/0 doz.	2/9 doz.
Ninepenny ,,	•••	4/6 ,,	4/1 ,,	Ninepenny ,,	***	4/6 ,,	4/1 ,,
Shilling ,,	•••	6/0 ,,	5/5 ,,	Shilling ,,	***	6/0 ,,	5/5 ,,
TINCTURES Sixpenny Bottles	•••	8/0 ,,	2/9 ,,	TRITURATIONS, Sixpenny B	ottle	4/0 ,,	3/7 ,,
Ninepenny ,,		4/6 ,,	4/1 ,,	Ninepenny	,,	4/6 ,,	4/1 ,,
Shilling ,,	•••	6/0 ,,	5/5 ,,	Shilling	2,1	6/0 ,,	5/5 ,,

Liberal supply of printed matter to Agents, also Showcards, Transparencies, &c.

4

SEVEN HIGHEST AWARDS—Philadelphia, 1876; Paris, 1878; International Medical Exhibition, London, 1881.

"Greatly superior to the preparations in common use."-THE LANCET.

VASILILIE SUALS

EMOLLIENT, ANTISEPTIC, HEALING.

Three Styles.

VASELINE, SUPERFINE TOILET, VASELINE, FAMILY TOILET, VASELINE TAR

One size, 1s. per tablet.

Two sizes, 6d. and 9d. per tablet.

Two sizes, 6d. and 9d. per tablet.

The "Vaseline" Tar Soap is the pleasantest and most effective combination of Tar for all Skin Diseases and Irritations, and a delightful Toilet article. The only genuine Tar Soap made.

The use of Lard, &c., as a basis for all ointments is now discarded by Medical Men, and "VASELINE" only is used for the purpose. "VASELINE," as is well known, possesses the most powerful inherent healing properties, is the best Emollient known to science, and will never become rancid: it is therefore the natural and only true basis for Soaps.

PREPARATIONS FOR MEDICINAL AND PHARMACEUTICAL USE.

"VASELINE" (PURE).

CAMPHORATED VASELINE."

"CARBOLATED VASELINE."

"WHITE VASELINE."

"VASELINE CONFECTIONS."

"VETERINARY VASELINE."

"VASELINE OIL."

In 1-oz., 2-oz., and 5-oz. bottles, and in \frac{1}{2}-lb., 1-lb., and 5-lb. tins.

In 2-oz, and 4-oz, bottles,

and in 1-lb. tins.

In 1-lb. and 5-lb. tins.

In fancy tin box, one size, 1s. each.

In 1-lb., 1-lb., and 5-lb. tins.

In 8-oz. bottles and 5-lb. tins.

FOR TOILET USE.

'POMADE VASELINE."

In 2-oz. and 5-oz. bottles. Also white in coloured glass-stoppered bottles.

"VASELINE HAIR TONIC

One size, price 4s. each.

"YASELINE HAIR JUNIU.

In glass pots, 9d. and 2s.

"VASELINE COLD CREAM." IN

In fancy tin box, one size, 6d. each.

"VASELINE TOURT SOAP"

LET SOAP." As above, 6d., 9d. and 1s. tablets. Boxes of 6 and 3 tablets.

"VASELINE TAR SOAP."

. 6d, and 9d, tablets.

IL IAN SUAF. "

SUNDRY PREPARATIONS.

VASELINE ANTI-CORROSIVE PASTE." One size, tin box, 6d. each.

"VASELINE BOOT PASTE."

"VASELINE HARNESS PASTE."

In 1-lb. tins, 1s. 6d.

"VASELINE AXLE PASTE."

'VASELINE" (PURE).

211 1-10: 0110, 10: 00:

In Metal Collapsible Cases, for Bicyclists and Sportsmen's Use. 6d. each.

NOTICE.—The above only Genuine in our Packages. The BOTTLED GOODS are put up in Cardboard Cases.

MANUFACTURED ONLY BY THE

CHESEBROUGH MANUFACTURING CO.

NEW YORK)

41 HOLBORN VIADUCT, LONDON, E.C.

REGISTERED TRADE MAE

THE SUSSEX DRUG COMPANY regret to have to give notice that the great success these Pills have achieved has induced a piracy of them. They publish below copies of each genuine and each forged label, and remarks pointing out the most salient distinctions. Any ININE AND PHOSPHORUS PILLS.

Dealers or Chemists who may have any of the spurious Pills in their possession are requested to at once return them for exchange. COBDEN'S GENUINE. ½ Dozen

ININE AND PHOSPHORUS

2s. 9d. SIZE

On the genuine labels the words "2s. 9d. Size" are larger than on the forged.

GENUINE. COBDEN'S

On the genuine labels the word "Pills" is in smaller type than on the forged; notice the curl of the "P" in Pills on the genuine label

On the genuine labels the words "Quinine and Phosphorus" are in thicker type than on the forged.

On the genuine labels the words " Dozen" are lower from the top than on the forged.

COBDENIS FORGED

QUININE TASTELESS

HUINIDE

TASTELESS

PHOSPHORUS

PRICE 2s. 9d PILLS.

PHOSPHORUS PILLS.

PRICE 28.9d,

The word "Quinine" is more squat on the genuine than on the forged; notice particu-The word 'Cobden's" on the genuine is lower from the top than on the forged. The word "Phosphorus" on the genuine is larger than on the forged. The word "Tasteless" on the genuine is smaller than on the forged. The word "Pills" is more squat on the genuine than on the forged. The border of the genuine is thinner than that of the forged

½ Dozen

FORGED.

UNINE AND PHOSPHORUS COBDENS

2s. 9d. SIZE.

COBDENS FORCED.

QUININE & PHOSPHORUS

PILLS

SELEZE S, ZHAMOD

the principal meal.

THE 2/9 BOTTLES CONTAIN 20 PILLS
8 THE 4/6 40 PILLS. Dose -- One daily, directly after

Sussex drug Company 135, QUEEN'S ROAD,

BRICHTON

Dose - One daily, directly after the principal meal.

THE'2/9 BOTTLES CONTAIN 20 PILLS Sussix Ding Company. 135, queen's Road, BRICHTON.

The words "The 2/9 Bottles contain," &c., are larger on the genuine than on the The words "Dose, One daily, directly," &c., are in quite different type on the forged.

QUININE & PHOSPHORUS PILLS The words "Quinine & Phosphorus" on the genuine are larger than on the forgad.

The words "Sussex Drng Company" are larger on the genuine than on the forged.

[larly the "Q."

INTERNATIONAL PHARMAGEUTICAL EXHIBITION,

VIENNA, 1883.

A

SILVER MEDAL

HAS BEEN AWARDED TO

Fletchers' Concentrated Liquors

In Group V. Section B.

"For the most useful contributions to Pharmacy."

FLETCHERS' Concentrated Liquors are the *original* and *only reliable* preparations, and Pharmacists are respectfully cautioned against *inferior Substitutes*.

Sole Manufacturers :

FLETCHER, FLETCHER & STEVENSON,
Holloway, London, N.

LITERARY AND SCIENTIFIC.

WORKS FOR CHEMISTS AND STUDENTS.

INCE'S LATIN GRAMMAR OF PHARMACY. Second Edition now ready. Price 4s.

For the use of Medical and Pharmaceutical Students; with an Essay on the Reading of Latin Prescriptions. By JOSEPH INCE, F.C.S.

F.L.S., A.K.C. Lond, formerly Examiner and Member of Council of the Pharmaceutical Society of Great Britain.

GRIFFITH'S TEXT-BOOK OF MATERIA MEDICA AND PHARMACY. Price 9s.

By Dr. HANDSEL GRIFFITH and Dr. G. F. DUFFEY, Examiner in Materia Medica and Therapeutics, Queen's University.

"The ablest and the best work on the subject in the English lauguage."—Medical Press and Circular.

GRIFFITH'S NOTES ON THE PHARMACOPŒIAL PREPARATIONS. 3s. 6d. "Simply invaluable to the Pharmaceutical Student."—Chemist and Druggist.

GRIFFITH'S POSOLOGICAL TABLES. Fourth Edition. Price 1s.; or on linen, with rollers, 3s. 6d. A Classified Chart of Doses, showing at a glance the dose of every Officinal Substance and Preparation.

WILLSON'S CHEMICAL NOTES FOR PHARMACEUTICAL STUDENTS. 2s. 6d. "The book is one of a very useful and original kind, and quite up to date."—Chemical News.

EXAMINATION QUESTIONS ON THE MEDICAL SCIENCES. Second Edition. 2s. 6d.

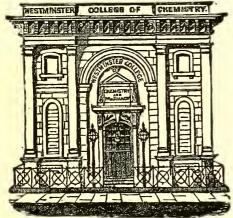
By J. Greig Leask, M.B. Contains the Questions set at all the Examining Boards in the United Kingdom, as well as those for the Army, Navy, and Indian Medical Services.

MINERAL WATERS OF EUROPE. Price 3s. 6d.

Analytical Reports on all the Bottled Waters. By Professor Tichborne, F.C.S., LL.D., President of the Pharmaceutical Society of Ireland; with their Therapeutical Values and Uses, by Dr. Prosser James, M.R.C.P. Lond., Lecturer on Therapeutics, London Hospital. Send for Catalogue, post free.

London: BAILLIÈRE, TINDALL & COX, 20 King William Street, Strand, and all Booksellers.

WESTMINSTER COLLEGE



The next Course will commence on Monday, October 29th.

FEES:-		
To the De ember Examination	£5	5s.
To the February ,,	£8	88.
Six Months' Course	£10	10s.
Twelve M nthe' Course	£15	159

Any diligent Student, with ordinary ability, who is punctual in his attendance at the Lectures and Classes, may rely upon passing his Examination at the first attempt.

For Prospectuses and other information apply to

Messrs. WILLS & WOOTTON, TRINITY SQUARE, LONDON, S.E.

30. In the Shilling Discount for Cash with Order.

Books sent to any of the Wholesale Houses for enclosure.

HENRY KIMPTON, Chemical and Scientific Bookseller and Publisher, 82 High Holborn, London, W.C.

New Catalogue One Stamp. To the Pharmaceutical Society of Great Britain

WORKS BY DR. DOBELL,

Consulting Physician (late Senior Physician) to the Royal Hospital for Diseases of the Chest, &c.

"We should be at a loss to name anyone in Great Britain whose works repay earnest study more richly than those of Dr. Dobell."—Medical and Surgical Reporter, Philadelphia.

ON Loss of Weight, Blood-Spitting, and Lnng DISEASE. To which is now added Part VI., on the FUNCTIONS and DISORDERS of the LIVER, and their Management in accordance with the Results of Modern Discovery Second Edition. Coloured Plate.

Affections of the Heart and in its Neighbourhood. Cases, Aphorisms, and Commentaries. Illustrated. Second issue.

On Winter Cough, Catrrrh, Bronchitis, Emphysema, ASTHMA. Coloured Plates. Third Edition, with Notes on Climate.

On Diet and Regimen in Sickness and Health, and on the Interdependence and Prevention of Diseases, and the Diminution of their Fatality. Seventh Edition. Enlarged.

On the Mont Dore Care, and the proper way to use it.

Report on the Use of Pancreatic Emulsion and Pan-CREATINE, as first introduced into Medical Practice by Dr. Dobell in 1863.

A descriptive Catalogue of Dr. Dobell's Works, with Prices, Lists of Illustrations, Opinions of the Press, and the Table of Contents of each volume, on application at LEWIS'S LIBRARY, 136 Gower St., London, W.C.

EDINBURGH PHARMACEUTICAL CLASSES

DAY and EVENING CLASSES for PHARMACEUTICAL STUDENTS are conducted in the Classrooms and Laboratories, 41 Chambers Street, Edinburgh.

CHEMISTRY (Lectures and Laboratory) ...

Or. DRINKWATER, F.C. S. Lecturer Ed. Sch. of Medicine.

BOTANY { Dr. J. M. MACFARLANE, Royal Botanic Gardens. Arrangements are in course of completion for a Course of Lectures on Materia Medica and Pharmacy.

INSTRUCTION BY CORRESPONDENCE.

For all particulars apply to Dr. DRINKWATER, Chemical Laboratory, 41 Chambers Street, Edinburgh.

ESTABLISHED 1842.

PHARMACY SCHOOL OF THE

Of the Pharmaceutical Society of Great Britain.

Chemistry and Pharmacy, Prof. Redwood, F.I.C., &c. Botany and Materia Medica, Prof. Bentley, F.L.S., &c. Practical Chemistry, Prof. Attfield, F.R.S., &c.

FORTY-FIRST SESSION 1883-84, extending from October 1 to July 31.

Application for admission to the School, for Prospectuses, or for further information, may be made to the Professors or their Assistants in the Lecture Room or Luboratories, 17 Bloomsbury Square, London, W.C.

THE CENTRAL SCHOOL OF CHEMISTRY AND PHARMACY,

173 MARYLEBONE ROAD (OPPOSITE LISSON GROVE), N.W.

DIRECTORS

MESSRS. LUFF & WOODLAND.

Teacher of Chemistry and Physics, Mr. A. P. LUFF, F.C.S., F.L.S., Pereira Medallist. &c. Teacher of Pharmacy, Botany, Materia Medica, &c., Mr. J. WOODLAND, F.C.S., F.L.S., M.P.S., &c.

"SYSTEMA OMNIA VINCIT."

SOUTH LONDON SCHOOL of PHARMACY.

325 KENNINGTON ROAD, S.E.

Director: Dr. JOHN MUTER, M.A., F.I.C., F.C.S., &c.

FIFTEENTH SESSION, 1883-84.

Commenced on 10th September. For Fees, Syllabus, &c., apply to W. BAXTER, Secretary.

THE LONDON HOMEOPATHIC HOSPITAL AND MEDICAL SCHOOL,

Great Ormond Street, Bloomsbury. Unendowed. Seventy Beds. Funds urgently needed. Trained Nurses sent ont to attend private patients. For further information apply to the Hospital. By order,

G. A. CROSS, Secretary.

"CONCILIO ET LABORE."

MANCHESTER COLLEGE OF PHARMACY, 225 OXFORD STREET, MANCHESTER.

Mr. W. S. TURNER, Pharm. Chemist, M.P.S.

TABLE OF CLASSES AND FEES. Fee, per Month.
I.—Day Class for Minor
II.—Afternoon Class for Minor
III. Evening Class for Minor
IV.—Afternoon Class for Preliminary 1 1 0

THE GRAMMAR SCHOOL, HINGHAM, NORFOLK. Head Master ... Mr. J. S. TURNER.

Now conducted under New Scheme approved by Charity Commissioners. President of Board of Governors-The Right Hon, the Earl of Kimberley.

STUDEN'TS' AIDS TO EXAMINATION.

DRELIMINARY.—Arithmetic and Metric System, 1s. How to Write an Essay, 6d. Latin Grammar and Casar Simplified, 1s.

MINOR—Equations Simplified, 1s. Illegible Autographic Prescriptions, 1s.

Minor Questions, gratis. Notes on Dispensing, 1s. Prescriptions given at
the Minor, 1s. For "How to Prepare for either Exam.," enclose stamped
envelope, "Chemist," care of Mr. J. EDWARDS, Wye, Kent.

TULLY'S POSTAL TEACHING,

For the Minor, Modified, and Preliminary,

WAS established in 1872, and notwithstanding many imitations, continues to hold its prestige as the best and most successful method ever offered to Students for obtaining that thorough knowledge necessary to qualify for Examination, without leaving home. Every Student desiring to ensure success should study under this system. Fees: Minor or Modified, One Guinea; Preliminary, 10s. 6d. Scnd for particulars to

TULLY (Hills Prizeman), Chemist, TUNBRIDGE WELLS.

OWENS COLLEGE, MANCHESTER,

COURSE IN PHARMACY.

Chemistry—Prof. H. E. Roscoe, Ph.D., LL.D., F.R.S.; Prof. C. Schorlemmer, F.R.S.

Botany-Prof. W. C. WILLIAMSON, LL.D., F.R.S.

Materia Medica and Pharmacognosy—Prof. D. J. LEECH, M.D., F.R.C.P.; and Mr. W. Elborne.

Pharmaceutical Chemistry and Pharmacy-Mr. W. Elborne.

Courses of Lectures adapted to the requirements of Pharmaccutical Students will be delivered during the Session 1883-4, commencing October 15th. Prospectuses will be forwarded on application. J. HOLME NICHOLSON, Registrar.

ROYAL COLLEGE OF SCIENCE FOR IRELAND. STEPHEN'S GREEN, DUBLIN.

SCIENTIFIC AND TECHNICAL EDUCATION.

SESSION 1883-84.

This College supplies a complete Conrse of Instruction in Science, as applied to the Industrial Arts, especially those which may be classed broadly under the heads of CHEMICAL MANUFACTURES, MINING, and ENGINEERING.

A Diploma of Associate of the College is granted at the end of the

Three Years' Course.

There are Four Royal Scholarships, tenable for two years, each of the value of £50 yearly, with free education, including Laboratory Instruction. Two become vacant each year. They are given to Students who

The Fees are £2 for each Course, or £10 for all the Courses of each year, with the exception of Laboratory Practice.

CHEMISTRY (THEORETICAL AND PRACTICAL), METALLURGY, &c.—Professor HARTLEY, F.C.S., F.R.S.E.

MATHEMATICS, MECHANICS, AND MECHANISM-Professor HENNESSY, F.R.S., M.R.I.A.

F.R.S., M.R.I.A.

DESCRIPTIVE GEOMETRY, DRAWING, ENGINEERING, AND SURVEYING

—Professor PIGOT, C.E., M.R.I.A., Dean of Faculty.

EXPERIMENTAL PHYSICS (THEORETICAL AND PRACTICAL)—Professor

BARRETT, F.R.S.E., M.R.I.A.

MINING AND MINERALOGY—Professor O'REILLY, C.E., M.R.I.A.

BOTANY—Professor M'NAB, M.D., F.L.S.

ZOOLOGY—Professor HADDON, M.A., F.Z.S.

GEOLOGY—Professor HULL, M.A., LL.D., F.R.S.

PALÆONYOLOGY—Mr. BAILY, F.L.S., F.G.S., M.R.I.A.

The Chemical and Physical Laboratories and Drawing School are open

The Chemical and Physical Laboratories and Drawing School are open daily for Practical Instruction.

Gally for Fractical Instruction.

Fee for Chemical Laboratory, £2 for One Month, £5 for Three Months, £9 for Six Months, or £12 for Session. Fee for Physical Laboratory, £1 per Month, or £6 for Session. Fee for Special Course of applied Electricity and Laboratory, £4. Fee for Biological Laboratory, £2 for the term. Fee for Drawing School, £3 for Session, or £2 for one term.

The SESSION COMMENCES on MONDAY, OCTOBER 1st.

Programmes may be obtained on application at the College, or by letter addressed to the Secretary, Royal College of Science, Stephen's Green, Dublin. Professor J. P. O'REILLY, Secretary pro tem.

Sixth Edition. 2 vols. 8vo. £2 2s.

COOLEY'S CYCLOPÆDIA OF PRACTICAL RECEI

AND COLLATERAL INFORMATION IN THE ARTS, MANUFACTURES, PROFESSIONS, AND TRADES,

Including Medicine, Pharmacy, Domestic Economy, and Hygiene; designed as a Comprehensive Supplement to the Pharmacopeeia and General Book of Reference for the Manufacturer, Tradesman, and Head of a Family. Edited by Prof. Tuson, F.I.C., F.C.S., assisted, by several Scientific Contributors.

LONDON: J. & A. CHURCHILL, 11 NEW BURLINGTON STREET.

Now ready, Second Edition, Revised and Enlarged, with 44 Wood Engravings and 32 Lithograph Facsimile Prescriptions. 8vo, 14s.

By BARNARD S. PROCTOR, formerly Lecturer on Pharmacy in the College of Medicine, Newcastle-on-Tyne.

"Mr. Proctor's lectures have won a high repute for their clearness and scientific spirit."—The Practitioner.
"It presents in readable style the experience of an accomplished pharmacist on the topics which come daily before every chemist and druggist, his assistant, or his apprentice."—Chemist and Druggist.

LONDON: J. & A. CHURCHILL, 11 NEW BURLINGTON STREET.

NEW EDITION OF "BEASLEY'S PRESCRIPTIONS,"

Sixth Edition, much Enlarged. Svo, 6s. 6d.

Containing upwards of 3,000 Prescriptions, collected from the Practice of the most eminent Physicians and Surgeons, English and Foreign; comprising also a compendious History of the Materia Medica, Lists of the Doses of all Official or Established Preparations, and an Index of Diseases and Remedies.

* * The whole of the work has been revised, and its information corrected and augmented to the present time. All the prescriptions have been carefully examined and, where necessary, tested.

> AUTHOR. BY THE SAME Eighth Edition. 18mo, 6s. 6d.

THE DRUGGIST'S GENERAL RECEIPT BOOK; comprising a Copious Veterinary Formulary, numerous Recipes in Patent and Proprietary Medicines, Druggists' Nostrums, &c.; Perfumely and Cosmetics; Beverages, Dietetic Articles and Condiments; Trade Chemicals, Scientific Processes, and an Appendix of Useful Tables.

Tenth Edition. 18mo, 6s. 6d.

POCKET FORMULARY AND SYNOPSIS OF THE BRITISH AND FOREIGN PHARMACOPŒIAS: comprising Standard and Approved Formulæ for the Preparations and Compounds employed in Medical Practice.

LONDON: J. & A. CHURCHILL, 11 NEW BURLINGTON STREET.

(Late M. JACKSON & CO.).

Manufacturers and Importers of every description of Apparatus for Lecturers or Laboratory use.

By Appointment to H.M. Hon. Board of Inland Revenue, Science and Art Department, Royal School of Mines, Trinity House, Pharmaceutical Society, &c.

ILLUSTRATED PRICE LISTS ON APPLICATION.

BARBICAN, 65 LONDON. E.C.

Now Ready, a Companion to the Latest Edition of the British

SECOND EDITION. REVISED AND ENLARGED.

The first edition of the above work was sold in less than twelve months. Great care has been taken to insert every information necessary for the preparation of Homocopathic Medicines, and all the official processes of the British Homocopathic Pharmacopacia of 1882 (third edition) are given, besides directions for making medicines on the American plan. The ehemist wishing for information on the subject should buy this work, for he will be able to become his own manufacturer, and in any case will derive much information concerning new remedies, both British and American, of which a host The first edition of the above work was sold in less than twelve months. are added.

Free by 3/6 Post.

Published by KEENE & ASHWELL, Manufacturing Homeopathic Chemists, 74 NEW BOND STREET, LONDON.

PRICE LISTS OF MEDICINES ON APPLICATION.

ALMANACKS FOR LOCALISING, 1884

CASSELL & COMPANY, Limited,

BEG to announce that their Crown 8vo. Almanacks for 1884, specially prepared for the purpose of Localising, are now ready. Specimens and particulars will be forwarded on application. They consist of :--

- 1. GENERAL ILLUSTRATED ALMANACK for 1884-15 Illustrations. | 3. LETTERPRESS ALMANACK for 1884-containing Anecdotes, &c. 2. PICTORIAL ALMANACK for 1884-8 Full-page Illustrations, printed on toned paper.
 - 4. COMMERCIAL ALMANACK and DIARY for 1884-12 Illustrations. 5. DOMESTIC and WEATHER ALMANACK for 1884-24 Illustrations.

Also, uniform with the above,

A LITERARY COMPANION to the Almanacks.

A HUMOROUS COMPANION, containing 20 Comic Illustrations.

A 12-Page DIARY, ruled for Casb. ILLUMINATED COVERS for Crown 8vo. Almanacks, printed in Three Colonrs.

La Belle Sauvage Yard, Ludgate Hill, London, E.C.

See "Trade Notes," CHEMIST AND DRUGGIST, October 14th, 1882, p. 456.

Send Stamp for Sample and Particulars. See See See







Title Registered. Ent. Sta. Hall. Fifteenth Year of Publication.



BEST VALUE FOR MONEY IN THE MARKET. HIGHLY APPRECIATED. NUMEROUS TESTIMONIALS



OAVIS, Medical & Commercial Printer,

Steam Works-201, OLD KENT ROAD, LONDON, S.E.

RICE FIVE SHILLINGS. **THE CHEMISTS' AND DISPENSERS' VADE MECUM**, Medical, Chemical, and General; or Things Worth Knowing, in Pharmacy, Chemistry, Materia Medica, and Therapeutics, to which is appended a Key to Dispensing Difficulties, and other practical and useful information. Compiled from the latest and best Authorities, by W. CANNING. To be ordered through J. DAVIS, Printer, Steam Works, 201, Old Kent Road, London, S.E.

KIRKES' PHYSIOLOGY.

Tenth Edition, revised, with 420 Illustrations, post 8vo., 14s.

HANDBOOK OF PHYSIOLOGY. A By W. MORRANT BAKER, F.R.C.S., Lecturer on Physiology and Surgeon to St. Bartholomew's Hospital, and Surgeon to the Evelina Hospital for Sick Children.

The Chapter on the Chemical Composition of the Human Body has been in great part re-written: and the text has been much altered in many others, especially the Chapters on the Blood, Circulation, Respiration, Digestion, and the Nervous System.

About 60 new Illustrations have been added.

JOHN MURRAY, Albemarle Street.

PRACTICAL PHARMACY, MATERIA MEDICA AND THERAPEUTICS.

MANUAL containing sections on Compounding, Dispensing, Prescription writing and reading, Latin abbreviations, Litbographed The Frescripton writing and reading, Latin addrevations, Integraphed Recipes (parsed and translated), strengths, solubilities, doses, combinations of all the P.B. Drugs, and a notice of the more important new ones, with Formulæ, &c. By W. WHITLA, M.D., Consulting Physician to the Ulster Hospital for Women.

"Should be in the hands of every Chemist."

LONDON: H. RENSHAW, 356 STRAND. 8vo. 10s. 6d.

EDINBURGH SCHOOL OF PHARMACY AND

MARSHALL STREET, NICOLSON SQUARE.

The Sessions open at this School in January, May, and October. ONE Session's Attendance has hitherto been found sufficient to secure success. For particulars apply to-

R. URQUHART, Sec.

Silverlock's

SACHET, PRESENTATION, AND CARD



H. SILVERLOCK, 92, BLACKFRIARS ROAD, LONDON, S.E.

CHEAP EDITION. JUST PUBLISHED.

THE MOTHER'S GUIDE IN THE MANAGEMENT AND FEEDING OF INFANTS.

FEEDING OF INFANTS.

By JOHN M. KEATING, M.D., Lecturer on the Diseases of Children at the University of Penna. &c., &c.

Second Edition, Revised and Enlarged, by C. E. ARMAND SEMPLE, M.B., Cantab, M.B.C.P., Lond, &c., C., Physician to the North Eastern Hospital for Children, &c., "On the whole this is a good book. There is the ring of common sense in the remarks about the employment of a wet nurse, about the proper food for a nursing mother, about the continued the proper food for a nursing in the remarks about the employment of a wet nurse, about the proper food for a nursing which the critic might say, surely this is divious, but which experience ache us the state of things needed own with the continued to the state of t

HENRY KIMPTON, 82 HIGH HOLBORN.

F. DARTON & CO.,

Established

45 ST. JOHN STREET, WEST SMITHFIELD.

[Established

DARTON'S

IMPROVED IMPERISHABLE

Index Clinical Thermometers,

As noticed in the Lancet, Chemist and Druggist, &c., can be obtained only of the Inventors and Makers; cannot get out of order, and are therefore specially suited for Export.

PLAIN CLINICAL THERMOMETERS.

4 or 6 in., in case, 4s. each.

4 in. ditto, contracted in Ebony, G. S. or Celluloid Case, 4/6 each.

6 in. ditto, Ebony or Boxwood Case, 4/6 each.

DARTON'S IMPROVED DITTO, IMPERISHABLE INDEX, 4 or 5 in., 6/ each.

Ditto, Enlarged and Magnified Bore, 7/ each.

One Bent and One Straight 6-inch Clinical Thermometer, in Morocco Snap Case, 10/6 the set.

If divided in Centigrade Scale, same price.

Kew Certificates, 1/3 each extra.

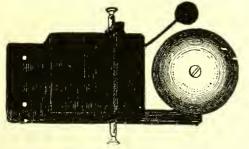
BATH THERMOMETERS, Japanned Tin Cases, Silvered Metal Scales, 8 inches long, 12/ per dozen.

Ditto, Enamelled Tubes, with Dr. Forbes' Specifications, 15/6. Ebonized Thermometers, with Enamelled Mercury Tubes, 4/6 per dozen.

SPECIAL PRICES FOR LARGE ORDERS.

All kinds of Thermometers and Barometers made to Order. A large Selection always in stock.

ELECTRIC BELLS.



New Form Metal Frame Electric Bell, with 2½ Patent Dome, 5/6 each. Complete, with Large Battery, Push Piece and Wire, and Istructions for Fixing, 10/6.

Invalids' Electric Bell Set, with Bell and Battery in Polished Case, 30 feet of Flexible Line Wire, and Pear Push, 21/ each.

Estimates given for Fitting up Houses or Shops.

MAGNETO ELECTRIC MACHINES.

In Pine Cases, from 10/6 each.

New Illustrated Price List of Electric Bells and Fittings sent, post free, on application.

SPECTACLES.



Iron Frames, Convex Glasses, Assorted Sights.

Common, 21/ per gross.

Cases for ditto, 12/ per gross.

Steel Frames—Common, 4/6 & 6/ per doz.

Better Quality, 10/ per doz.

Ditto, fitted with Neutral Tint Glasses, 12/ per dozen.

Large Eye, Best Quality Frames, and Best Neutral Tint Glasses, 30/ doz.

Ditto Light Ball-Joint Frames, 18/ per dozen.

Ditto Light Ball-Joint Frames, 18/ per dozen.

Ditto Extra Light Frames, Best White Glasses, 36/ per dozen.

Pantoscopic ditto, with Polished Edge Glasses, 36/ per dozen.

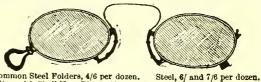
Steel Frames, with Convex Pebbles, 27/ per dozen.

Ditto Better Quality Frames, 49/ per dozen.

Ditto Better Quality Frames, 49/ per dozen.

Ditto Better Quanty Frames, 42/ per dozen.
Ditto Best Pebbles, 48/ per dozen.
Ditto Extra Light Frames and Best Pehhles, 60/ per dozen.
Ditto Extra Light Frames and Best Pehhles, 60/ per dozen.
Globular Spectacles, Neutral Tint, Domed Glasses, 7/6 per dozen.
Ditto Stout English, 30/ per dozen.

[dozen.
D EYE SPECTACLES, Neutral Tint Glasses, Best Quality, 48/ per



Common Steel Folders, 4/6 per dozen. Steel, 6/ and 7/8 Dltto, with Shell Nose Pieces, 10,6 per dozen. Ditto Grooved Glasses, Light Frame, 15/6 per dozen. Ditto Nickel Plated, Grooved, Extra Light, 24/ per dozen. Ditto Best Fancy Handiad, 42/ per dozen. Nickel Plated Folders, Coloured Glass, 36/ per dozen.

New Pattern Gold Cased Japanese Folders, will wear like gold, 60/ per SKELETON FOLDERS from 8/6 per dozen.

Nickel Plated Japanese Folders, with Domed Glasses, Best Finish, Blue and Neutral Tint, 30/ per dozen. Gold Spectacles, from 11/ per pair. Gold Folders, from 13/ per pair.

Folder Cases, 14/ per gross. Ditto, superior, 24/ per gross. Best ditto, Velvet Lined, 42/ per gross. Tuck Cases, 14/ per gross. Ditto, all Leather, 30/ per gross. Ditto, best Morocco, 48/ per gross.

Ditto, best morocco, 48/ per gross.

French Frog Mouth Cases, 4/6, 6/, and 8/ per dozen.

EYE-GLASS CORDS, Black Silk, 7/6 per gross. Ditto, Best Quality, 10/6 per gross. Ditto, with Ball and Swivel, 24/ per gross.

UNBREAKABLE GILT CORD, 3/ per dozen yards.

AMERICAN AUTOMATIC EYE-GLASS CORDS, with Spring and Swivel, 7/6 per dozen.

** Single articles cannot he supplied at these prices.

For the convenience of Customers who have not yet started the Sale of Spectacles, we fit up Show Cases, containing an assortment of Spectacles, complete with Sight Tester and Instructions, as follows:—



Our £2 2s. SHOW CASE for the Counter, in Polished Mahogany, contains 4 dozen Spectacles, Sight Tester, and Instructions for suiting sight. Our £3 3s. CASE contains, in addition, 2 dozen Folders and 2 dozen Cases. Larger sized Cases, in Polished Mahogany or Ebonled, with an assortment of superior quality Spectacles, Folders, and Cases, £6 6s. and £10 10s. Ditto, with assortment of Best Pebble Spectacles and Folders, £21.

New Illustrated Price List of Spectacles and Folders, with Trade Terms, on application.



MAY BE HAD ON APPLICATION,

ENCLOSING BUSINESS CARD,

S. Maw, Son & Thompson's



QUARTERLY PRICE GURRENT

AND

BOOKOFILLUSTRATIONS

Surgeons' Instruments and Appliances;

INSTRUMENTS, &c., FOR VETERINARY PURPOSES;

Druggists' Apparatus, Implements, Utensils,

And other requisites employed in Pharmacy and the Dispensing of Medicines;

MEDICAL GLASS AND EARTHENWARE; MEDICINE CHESTS; Shop Fittings and Glass Show-Cases;

LINT AND SPREAD PLASTERS;

Flesh Brushes, Gloves, Rubbers, &c.,

HAIR, TOOTH, AND NAIL BRUSHES;

TOILET AND SMELLING BOTTLES, FEEDING BOTTLES;

Proprietary Articles, Perfumery, and

DRUGGISTS' SUNDRIES OF ALL KINDS.

MANUFACTURED AND SOLD BY

S. MAW, SON & THOMPSON,

ALDERSGATE STREET, LONDON.

Forwarded, Post Free, to all parts of the World.



ONLY WATER. MINERAL NATURAL

TO EVERY CHEMIST,

The large and increasing demand for Æsculap, while proof of its superiority and the favour in which it is held by the Medical Profession,

Stg.—The large and increasing demand for Asculap, while proof of its superiority and the favour in which it is held by the Medical Profession, is, in the estimation of the Proprietors, largely due to the support which has been everywhere accorded to it by the Chemists.

In recognition of this encouragement, my Directors have determined to cultivate your custom to the utmost of their ability, and to confine the sale of the Water as much as possible to the proper trade channels—namely, the Chemists.

I am instructed, therefore, to inform you that permission having he obtained to print and circulate a PAMPHLET on "The Nature and Tses of Æsculap," copies of the same, together with 1.000 CIRCULARS (a good, large, useful counter hill) with your name printed at foot, will be supplied to you on application, free of charge, together with TRANSPARENCIES and SHOW CARDS, and forwarded to you direct or through any Wholesale House, for enclosure.

At foot I subjoin prices at which Æsculap can be obtained direct, or from any of the Wholesale Druggists and Dealers.

Awaiting the favour of your reply, I remain, your obedient Servant, E. SAMSON, Manager.

N.B.-I shall be glad to receive any suggestions from you with a view to promoting the sale of Esculap in your neighbourhood to our mutual advantage.

PINTS, Retail, 1/6; for Cases of 50 Bottles, 50/- net. QUARTS, Retail, 2/-; for Cases of 25 Bottles, 30/- net. On lots of Ten Cases carriage will he paid, and a discount of 10 per cent. allowed.

ÆSCULAP is now prescribed by all the leading Medical Men, in preference to all other Waters. ÆSCULAP will continue to be largely advertised all over the world. ÆSCULAP is acknowledged by everybody to be the best Natural Aperient Water.

Every Bottle direct from the Celebrated Spring in Hungary. Retail Price, 1/6 and 2/- each.

THE ÆSCULAP BITTER WATER CO., LIMITED, HOLBORN VIADUCT, LONDON, E.C.

CHIENNISTS' BALLI

MEETING will be held, by permission, at 17 BLOOMSBURY SQUARE, on Monday Evening, November 5, 1883, at 9 P.M., for the purpose of making Preliminary Arrangements for the ensuing Ball. Any gentleman desirous of becoming a Steward, and unable to be present, will oblige by informing the Honorary Secretary of such his intention without delay.

143 New Bond Street, W.

JOHN F. SAVORY, Hon. Sec.

AURANTII,

Specially prepared for Quinine Wine, does not deposit, will keep good in any Climate, and well adapted for Export Trade.

Supplied in Casks containing 9, 18, 30, 60, or 120 Gallons. Terms on application.

1 doz. mounted on a handsome Illustrated Show-Card, Retail, 6d. each; Wholesale, 3s. 6d. per doz. It is especially adapted for Export Trade, and may be safely sent to the hottest climates, as each glass tube is hermetically sealed and enclosed in a cardboard case. N.B.—The above is exempt from Stamp Duty by permission of the Board of Inland Revenue.

CONCENTRATED WATERS.—One Ounce of these Waters added to Forty Ounces of Distilled Water forms a clear Medicated Water (without filtering), similar in every respect to those prepared according to the directions of the British Pharmacopocia, and free from all Chemical impurity. They are prepared to supply a want long felt by Chemists and Medical Men, and by their use a fresh supply of any of the Medicinal Waters may be obtained at a moment's notice. They are not affected by age in any climate. N.B.—Used in the proportion of one part to thirty-two of water they represent the Medicinal Waters of the United States Pharmacopocia.

Per lh. Per lb. Aqua Anethi, Concent. 4/0 | AquaCinnam, Ver. Concent. 6/0 | Aqua Feniculi, Concent. 4/0 | Aqua Pimentes, Concent. 4/0 | Aqua Feniculi, Concent. 4/0 | Aqua Pimentes, Concent. 4/0 | Aqua Pimentes, Concent. 4/0 | Aqua Pimentes, Concent. 4/0 | Rose |

The above are put up in Bottles of 11b. or 11h. and npwards, each of which has the Inventor's Protection Label over cork.

Wholesale Agents—Hearon & Co., Maw, Son, & Thompson, Lynch & Co., London; Evans, Sons & Co.,

Liverpool; Woolley, Manchester; Bewley & Draper, Hunt & Co., Dublin; Glasgow Apothecaries' Co., Hatrick & Co.,

Glasgow; Raimes & Co., Duncan Flockhart & Co., J. Mackay & Co., T. H. Smith & Co., Sinihurgh; Foggitt, Thirsk; Goodall & Co., Leeds;

J. Richardson & Co., Leicester; Slinger & Son, York; McKesson & Robbins, New York. Special terms for large quantities may be had from

B. ROBINSON, Distiller and Brewer of British Wines, Church St., Pendleton, Manchester.

CRUSHED LINSEED ORNCAST

GUARANTEED FREE FROM ANY OTHER SEEDS. NOTHING FINER CAN BE OBTAINED.

In free 1-cwt. bags, 18/6 cwt. Special quotations for 5 cwt. and upwards.

Seed Crushers and Merchants, HORNCASTLE.

Highest Award, Philadelphia, 1876. Gold Medal, Berlin, 1877. Highest Award and only Medal Paris Exhibition, 1878. Highest Award, Melbourne, 1881. Highest Award and only Medal CHILDRENS 1184-9B0

Frankfort, 1881.

Pnt on by Sponge attached to Wire and Cork in each Bottle. No Polishing Brush required. Dries in a few minutes. Can be used by any lady without soiling her fingers.

The "Satin Polish" is the most Elegant Article of the kind ever produced.

LADIES' SHOES, which have become Red and Rough by wearing, are

restored to their ORIGINAL COLOUR and LUSTRE, and will not soil the skirts when wet. TARNISHED PATENT LEATHER is improved by it.

For Travelling Bags, Trunks. Harness, Carriage Tops, &c., it is unequalled. It will not harden the Leather nor crack. It is not a spirit varnish. In Cartons, 4s. 6d. per dozen; 52s. per gross. Packed in Sawdust, 3s. 9d. per doz.; 43s. per gross. 2; %.

AMERICAN MAGIC BRONZE

Is the best in the Market, and it can be used with good effect on Ornaments, Picture Frames, Iron and Fancy Work generally, as well as for Boots and Shoes. In Cartons, 7s. per dozen. 21 %. ALL WHOLESALE CHEMISTS AND DRUGGISTS' SUNDRIESMEN

Factories: BOSTON MONTREAL 18 & 20 Norman's Buildings, ST. LUKE'S, LONDON,

Kay's New Transparent Cement for Broken Articles.

"Clear as Crystal," "Stronger than Glass," "Touch as Leather," 6d.,
1s., 2s., in Boxes or on Cards. Showcards, Handbills, with name, &c.,
Specimens &c. for home or expert Specimens, &c., for home or export, free.

KAY'S COMPOUND

ESSENCE OF LINSEED, ANISEED, SENEGA, SQUILL, TOLU, &c (with Chlorodyne).

WINTER SEASON, 1883-4.

KAY'S FAMILY REFERENCE ALMANACK, 1884. Chemists may be supplied with the above popular Annual with their names, &c., on the cover, free of charge, on writing to Messrs. KAY BROTHERS, and undertaking their distribution from house to house as soon as received. Also 1,000 hills for

counter use, with name and address, if asked for.

Enclose two (2) labels for correct address, with population of the district and best means of conveyance, under cover (labels on post cards being contrary to regulations), marked "Almanack," at your earliest convenience.

The Almanacks will be sent direct from the printer, with counter bills,

showcards, &c., if required.

KAY BROTHERS, OPERATIVE CHEMISTS,

Works and Laboratory: ST PETERSGATE.
7, 9, and 13 LOWER HILLGATE, STOCKPORT.
Successors to Sims, Shaw & Hornby, Founded by Ollive Sims, 1786.

ESTABLISHED 1732.

RICHARD

(Successor to Foster & Wrangham, Established 1732),

CRUSHED LINSEED & LINSEED MEAL MANUFACTURER,

PRACTICAL OL REFINER, OIL BOILER,

AND SEED CRUSHER

Paint, Colour, Varnish, and Whiting Manufacturer, OIL, TALLOW, BEESWAX, ROSIN, AND TAR MERCHANT,

PETROLEUM OIL AND TURPENTINE IMPORTER, SEED, CAKE, CORN, AND GENERAL MERCHANT,

Chemist & Grocers' Sundryman, Wholesale Drysalter.

LIME STREET, HULL.

Exporter to all parts of the World. Importer from all parts of the World.

GELATINE AND GLUE MANUFACTURERS.

(Late COIGNET PÈRE & FILS),

LONDON, 150 Fenchurch St.; PARIS, 130 Rue Lafayette.

Works: ST. DENIS, PARIS, LYONS, MANUFACTURERS OF

THICK GELATINES, FINE SHEET GELATINES, GLUES, RUSSIAN GLUES, PHOSPHORUS, PHOSPHATES, ANIMAL CHARCOAL,

DEGELATINIZED BONES.

1878-ONLY GOLD MEDAL.

1872-Cross of the Legion of Honour.

30 other Medals at Paris, London, Vienna, Philadelphia, Melbourne, Brussels, Amsterdam, etc., etc.



Medal, Paris Exhibition, 1867.

Medal, London Exhibition, 1862.



ESTABLISHED 1796.



WILKINSON, HEYWOOD & CLARK,

Varnish, Japan and Colour Works,

7 CALEDONIAN RD., LONDON, N.

Manufactory—WEST DRAYTON, MIDDLESEX.

DEPOTS IN ALL THE PRINCIPAL TOWNS OF EUROPE.

Paris—87 Avenue du Roule, Neuilly. Liverpool—30 Seel Street.

Gold Medal for Yarnish and



Colours, Paris Exhibition, 1878.

Varnishes.—Varnishes of all descriptions for Railway Carriage Builders, Coach Builders, Decorators, Ship Builders, Agricultural Implement Makers, Paper Stainers, Floor Cloth Manufacturers, &c., &c. These Varnishes are all of acknowledged superiority, and will stand the severest tests.

Non-Blooming Varnishes for interior decoration, guaranteed not to bloom.

Colours, Dry, Ground and in Pulp, of all kinds.—These Colours have for many years past been supplied to all the leading Coach Builders, House Painters, Paper Stainers, and Agricultural Implement Makers in the United Kingdom and abroad. They are all of the very finest quality; and for brilliancy, softness, and body are unsurpassed.

Non-Poisonous Colours.—A complete series of original Colours, all guaranteed to be non-poisonous.

From these Colours an infinite variety of delicate tints can be obtained. Primarily intended for distemper, they can be also used in oil and supplied in pulp.

Colours in Collapsible Tubes.—The advantages of these Tubes are well known. The packages are exceedingly portable; and the exact quantity required can be easily taken out and the remainder kept in perfect condition for any length of time. Guaranteed absolutely pure; and for brilliancy of colour, strength of staining power, and softness, they are unsurpassed.

Paints Ready for Use, in 1, 2, 3, 4, and 7 lb. Tins.—These Paints are intended for domestic use. The Colours are very brilliant, durable, and dry well, and with a good surface.

The demand for these Mixed Paints is rapidly increasing, and large quantities are supplied to all

The demand for these Mixed Paints is rapidly increasing, and large quantities are supplied to all parts of the country and to the Colonies. Tint cards sent on application.

Brushes.—Varnish and Paint Brushes of every description always in stock.

All Brushes manufactured by Wilkinson, Heywood & Clark bear the initials of the firm, have for years past been in great demand, and give the greatest satisfaction. Illustrated Price Lists sent on application.

Oils.—Raw and Boiled Linseed, Colza, Olive, Lubricating, and other Oils for home and export trades.

WILKINSON, HEYWOOD & CLARK have long enjoyed a great reputation amongst all the leading Coach Builders and Decorators, House Painters, Ship Builders; and for years past they have supplied their goods to the Admiralty, to the War Office, to the India Office, to the Colonial Office, to the Board of Trade, and to the largest Shipping Houses and Railway Companies.

GENUINE EMERY. EMERY CLOTH. AND BLACK LEAD.

JOHN OAKE & SONS.

Glass Paper, Emery and Glass Cloth; Emery, Black Lead, Pumice, Putty Powder, Crocus, Urn Powder, Tripoli, Rouge, Plate Powder, Steel Polish, Furniture Polish Knife Boards, Brunswick and Berlin Black, &c.

OAKEY'S WELLINGTON

Prepared expressly for Oakey's Patent India-Rubber Knife Boards, Bnff Leather Boards, and all the Patent Knife Cleaning Machines. Sold in Packets, 3d. each; and Tins, with perforated Tops to prevent waste, 6d., 1s., 2s. 6d., and 4s. each. NON-MERCURIAL SOAP. SILVERSMITH'S

OAKEY'S

For Cleaning and Polishing Silver, Plate Glass, Marble, &c. Tablets, 6d. each.

"

PASTE, POLISHING For Cleaning Brass, Copper, Tin, Pewter, &c., &c. Boxes, 1d.; Tins, 2d.; Pots, 6d. and 1s. each.

WELLINGTON BLOCK BLACK In 1d., 2d., and 4d. Blocks, and 1s. Boxes.

WELLINGTON EMERY & BLACK LEAD MILLS, Westminster Bridge Road, London, S.E. Highest Award and Prize Medal, Philadelphia Exhibition, 1876.

Is used by the Life, Horse, and Dragoon Guards, the Fire Brigades, &c.

METALLIC POWDER

For Cleaning and Polishing Metals and Glass (especially Brass).

LEAD.

PROPRIETORS-

J. F. BAUMGARTNER & CO., 22 NEWMAN STREET, OXFORD STREET, LONDON, W.

Sold by all Wholesale Houses. Beware of Imitations.

d ls. 6d. Large Bottles of Gold .. & Bowl & Brush 2s. 6d. , , , Liquid ... Small Bottles of Gold with Liquid Medium ,, To be obtained of all Chemists, Artists' Colourmen, and Druggists' Suudriesmen.

1s. 6d. and 2s. 6d. PACKETS.

CONTENTS:-1 Bottle Gold Powder, 1 Bottle Mixing Liquid, 1 Mixing Bowl, 1 Brush, in Cardboard Box. Where the Bowl and Brush are not required, the usual 1s. 6d. Packet should be purchased, as it contains a larger quantity of both Gold and Liquid. A Copper and Silver Paint, at the same prices, and yielding equally good results, can be obtained.

NOTICE.—The Gold Paint is so easy of application, economical in use, and excellent in appearance, that it s extensively employed in the Ornamental Gilding of Decorative Mouldings, Carvings, and all Fancy Ornaments made either of Metal, Wood, Porcelain, or Plaster, and the effect that can be produced, even by unstilled hands, makes it useful to all engaged in fancy or home embellishment.

sole Proprietor RICHARD J. ALLEN, Mansfield Place, Kentish Town, London, N.W.

If Translations are supplied, Circulars, Cards, or Labels will be printed in any language necessary for its sale.

GOLD MEDAL, ADELAIDE, 1881. ORDER OF MERIT, VIENNA, 1873.

Needham's

Polishing Paste,

For Cleaning Bras Copper, and Britan Metal Goods, &c.

Pickerings' Razor Paste, For sharpening Razora &c.

Waterproof Harness Blacking, For Black Leather

Harness.

ENEEDHAMS S



Joseph Pickering & Sons (J. Needham), Albyn Works, Sheffleld. Sheffield Knife

Powder, For Table Knives, Fire

Plate Powder,

For Electro-plate Articles, &c.

Furniture Polish. For cleaning French Polished Furniture, &c.

Brunswick Black,

> For all kinds of Iron Work.

S VARNISHES WOOD STAIN



THOMAS S. JACKSON & SONS, @



VIENNA.

LONDON.

READY-MIXED

Packed in 1, 2, 4, 7, and 14-lb. Tins.

28 USEFUL and SALEABLE TINTS.

Superior Colours, well packed, and guaranteed to Dry Well.

HANDSOME SHOW BOARDS

(Framed and Glazed), with Specimens of the Colours, supplied.

PRICES AND SAMPLE CARD ON APPLICATION.

(Every description).

BRUNSWICK AND BERLIN BLACKS. TEREBINE.

FRENCH POLISH.

WHITE AND BROWN HARD SPIRIT VARNISHES.

KNOTTING. LACQUERS.

DRYERS and of the finest **GROUND COLOURS**

DRY COLOURS, all Prices and Shades.

quality.

IMPORTERS OF OCHRE. ULTRAMARINE, &c.

"SPECIAL." MAHOGANY, OAK, SATINWOOD WALNUT ROSEWOOD, EBONY.

Draught, or packed in 6d. bottles ($\frac{1}{2}$ -pint). Also in powder.

SHOW BOARDS,

With specimens of the Stained Woods, supplied.

The demand for these Stains is steadily increasing. They possess great richness and truth of colour, and

ARE OFFERED AT A REASON-ABLE PRICE.

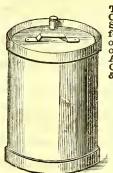
NOTICE.—All communications should be addressed to the Office—

LAYTON'S BUILDINGS, 199 HIGH STREET, SOUTHWARK, LONDON, S.E.

There is no connection with any firm of a similar name.

ESTABLISHED 1853.

W. B. WILLIAMSON & SONS, Providence Works, WORCESTER, PROPRIETORS OF



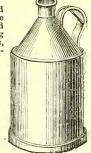
MANUFACTURERS OF TIN CANISTERS to hold Coffee, Mustard, Tobacco, Snuff, Biscuits, Jam. Confectionery, Paint, and every other description of Dry or Fluid Material.

Also Oil Bottles, Oil Cens Cisterns

Oil Cans, Cisterns,



ATENT for Names, &c., of Customers something on covers of Tins if desired. Oil Bottle Price Lists can be forwarded on application. In writing for quotations for Canisters, please state size and probable quantity required.



BIGGS & OLIPHANT.

WORKS,

HERTFORD ST., HAGGERSTON RD., LONDON, E.

MANUFACTURERS OF ALL KINDS OF

CANISTERS. OIL BOTTLES, &d.,

CHEMISTS, DRUGGISTS, GROCERS, CONFECTIONERS, AND OIL MERCHANTS.

Also Packages suitable for the New Postal Arrangements for Post Parcels.

PRICES OM APPLICATION. BUILDING REPRESENTATION PROPERTY OF PROPERTY FOR EXPORT AND CHELSEN. AT LOWER PROPERTY OF THE PROPERTY OF THE

METHYLATED SPIRIT MAKERS.

Regent Wharf, Copperfield Road, Mile End, London, E. FROM RATCLIFF.

SAMPLES AND PRICES UPON APPLICATION.

METHYLATED SPIRIT AND FINISH

supplied of the best quality, to suit the requirements of all trades, by

J. & W. HARVEY & CO., Distillers, Yoker, GLASGOW.

London Agents—JAMES CHAMBERS & CO., 291 Old Street, E.C.,

who keep Spirit always in stock at the London Depôt, 291 Old Street, City Road, E.C.

PURE SPIRITS OF WINE

FOR

TINCTURES, ESSENCES PERFUMES, &c., OXFORD ROAD DISTILLERY, MANCHESTER.

MESSRS. SMITH & GIBB

Beg to call the attention of CHEMISTS and DRUGGISTS to the undermentioned Prices of Pure Spirits of Wine:—

Strength per cent.			Specific Gravity.		Price per gallon
68 ov	er proof	••	0.8338	•••	20/10
60	91	• •	0.8298	••	20/4
55	49	0-0	0.8866	9-0	19/10
50	99	• •	0.8482	••	19/4

Terms—Cash on Delivery. Jars to be returned or 1 aid for.

For Exportation, Cask included, 4/0, 60 O.P., F.O.B.

Orders from the country must be accompanied with a remittance, including the price of the Jars, which are charged as follows:—2 galls, 3/-; 3 galls, 3/6; 4 galls, 4/-; 5 galls, 5/6; 6 galls, 6/-. When the empties are returned the money will be repaid.

EWENS' CLARIFIED LARD, MARROW, suets, and oils.

James Ewen & Sons are induced to give further publicity to these articles, the continued demand by all who have used them being satisfactory proof "that where purity of basis" in ointments, &c., is required, they are most desirable.

By their method of purifying, the fats are not chemically altered, but simply divested of all particles tending to decomposition, they are consequently available for the most delicate preparations.

Adeps. Benz. B. P. and Pharm. Lard (vide P. J. Vol. I. No. 8). Direct, "for Cash only," from

JAMES EWEN & SONS' CLARIFIED FAT WORKS,

5 HATFIELD STREET, STAMFORD STREET, S.E.;
Or through any of the Wholesale Houses, with their usual credit.
at a small advance.

CAUTION.—See that each package bears their label with name and weight.

CHUBB'S Z SEIDLITZ POWDERS

-Full Weight-Loose, at 7s. per gross, and in boxes, at 8s. and 10s. per dozen.

CHUBB'S Extra VIOLET POWDER

(WARRANTED PURE STARCH POWDER), In 1d. Boxes, 6s. 6d. gross, and 2d. Boxes, 12s. 6d. gross, and in 4-lb. and ½-lb. Packets, 10d. per lb.

CHUBB'S Pared FULLER'S EARTH

In 1d. Boxes, 5s, gross, and 2d, Boxes, 9s, 6d, gross, and in 3d, and 6d. ROUND Boxes, 2s, and 3s, 6d, dozen.

Subject to usual Discount.

May be obtained through all the Wholesale Houses, or direct from

CHUBB & CO., 29 OLD ST., LONDON, E.C.

SPECIAL QUOTATIONS FOR LARGE QUANTITIES.

Paton & Charles

(ESTABLISHED 1785),

Tunnel Soap Works, LONDON, E.





Paton & Charles

(ESTABLISHED 1785),

Tunnel Soap Works, LONDON, E.



HIGH-CLASS TOILET

Strongly recommended by the Medical Profession for its beneficial effects on the Skin, and for Preventing the Transmission of Culaneous Diseases.

DR. HASSALL'S REPORT ON THE HYGIENIC SOAP OF MESSRS. PATON & CHARLES.

"We have very carefully analysed samples of the Hygienic Soap manufactured by Messrs. Paton & Charles, and have also
"subjected them to certain practical tests with a view to determine their antiseptic action; we find, that when as little as
"one part of the soap is added to 10,000 parts of putrescible organic liquids, an efficient antiseptic action is exercised,
"no decomposition ensuing for a period of several weeks. The agent used is a very energetic antiseptic. This soap
"is admirably adapted for general as well as for medical use, being very well made, non-irritating, and of an
"agreeable aromatic odour. It will not only disinfect the skin in cases of infectious diseases, but the snds
"will tend to purify any sewer or house-drain into which they are thrown. This soap is a valuable
"adjunct to the sanltary appliances of every household." ARTHUR H. HASSALL, M.D.

"OTTO HEHNER, P.C.S."

Makers of the celebrated "Hard Water Soap" (Regd.), Double Primrose (Regd.), Extra Mottled, and all kinds of Household and Toilet Soaps.

To be obtained from the following Wholesale Chemists:—Messrs. Baise & Co., 4 Jewry Street, E.C.; Messrs. Barclay & Co., Farringdon Street, E.C.; Messrs. Butler & Crispe, 4 Cheapside, E.C.; Messrs. Davy Yates & Co., 64 Park Street, Southwark; Messrs. Edwards & Sons, 157 Queen Victoria Street, E.C.; Messrs. Evans, Lescher & Webb, 60 Bartholomew Close, E.C.; Messrs. Herrings & Co., 40 Aldersgate Street, E.C.; Messrs. Hodgkinson, Preston & King, 88 Leadenball Street; Messrs. Lynch & Co., Aldersgate Street, E.C.; Messrs. Maw & Co., Aldersgate Street, E.C.; Messrs. Newbery & Son, 1 King Edward Street, E.C.; Messrs. Sanger & Co., 252 Oxford Street, W.; Messrs. Satton & Co., Bow Churchyard, E.C.; Thompson, Müllard & Co., Lim, Great Bastern Street, E.C.

MANUFACTURERS, AND WHOLESALE EXPORT.

IMPERIAL" SOAP } SOFT

"FINEST PALE

"BBB," "BB," "BL,

CARBOLIC

OLIVE

99

Manufactured specially for Domestic use, and packed in 1, 2, 3, 3½, 4, and 7 lb. Tins.

Very pale Amber colour, odourless. Packed in barrels, firkins, half-firkins, and 14-lb, tins,

The usual qualities, and kept in all packages to suit buyers.

Contains 10 % Calvert's No. 5 Acid. For Dogs and Cattle, making Sheep Dip, and general disinfecting purposes. Packed in 1,2,4, and 7 lb. tins; 14, 28, 56, and 112 lb. iron drums.

The B.P. "Sapo Mollis," made from finest Olive Oil and pure Potash, in tins firkins and jars.

ROYAL

THRIDACE SOAP.

VELOUTINE SOAP.

SUPERIORITY OF

is confirmed by experience of half a century.

PARIS, rue Saint-Denis 228.

WHOLESALE AGENTS:

HOVENDEN & SONS, London.

COPYRIGHT, 3RD EDITION. PRICE 7s. 6d., POST FRAE. Invaluable at Home and Abroad.

CONFECTIONERS' HANDBOOK PRACTICAL SUGAR

Teaches the whole art of making Sweets of every description, English and Scotch Pastry, Biscuits, Jams, Jellies, and Marmalades, Ice Creams, Chocolates, Cordials, Aërated Waters, Fermented Beers, Pickles, &c. To manufacturers, shopkeepers, cooks, and everyone interested in the business, this book is worth its weight in gold. Vide the opinions of The Chemist and Druggist, Grocer, Caterer, Times, and upwards of 1,000 unsolicited testimonials.

P.O.O. payable at Southwick Street, W.,

E. SKUSE.

Practical Confectioner and Confectioners' Machinist,

30d PRAED STREET, LONDON, W.

ILLUSTRATED PRICE LISTS, &c., POST FREE:

The Cheapest Receipt Book ever published. Now Ready, price 2s. 6d.

TRADE RECEIPTS 500 PRACTICAL (GENERAL, REMEDIAL, VETERINARY),

FOR CHEMISTS AND DRUGGISTS,
Including Approximate Formulæ of several popular Proprietary Articles.

Formulæ which have been devised and published in English and Foreign Journals since the last editions of more expensive works were published are included in this work.

London: SIMPKIN, MARSHALL & CO., and all Booksellers.



[REGISTERED.]

Contains no Arsenic or any injurious ingredient.

Used and recommended by several eminent Physicians. A PAINLESS & UNFAILING REMEDY.

This preparation has the advantage over similar preparations in being quite painless. After 2 or 3 applications the Corn which will be destroyed— can be easily picked out, leaving the part healthy and free from pain.

It is put up in cases containing a Bottle of Paint, Adbesive Plaster, and Camel-hair Pencil, fixed, in dozens, on neatly-bronzed show-cards, with counter bills.

Sample free by post, 71d.

Prepared only by the Inventors, J. HARGREAVES & SON, Chemists, 108 Fylde Road, Preston.

London Depôt: 1 & 2 Australian Avenue, E.C. Liverpool Depôt: 149 Duke Street Sold by all Patent Medicine Warehouses and Drugsits' Sundriesmen.

AGENTS WANTED IN THE COLONIES.

RANDALL'S BLACK CURRANT LOZENGES. Net Cash. To Acct.

2 Plain Black Current, old square 8 rough oval 8 Black Current and Ipecacuanha 8 Black Current and Tannin .. 8 8 Black Currant Voice (warm astringent) .. 3 8 3

RANDALL & SON, Southampton,

Who will forward Samples by post on application.

Also, Brown Cough Lozenges, 2s., 2s. 2d.; 7 lbs. stamped with name free, and Musk Lozenges (Special), 2s. 6d., 2s. 8d.

N.B.-Medical Lozenges of every kind,

Including those of the Pharmacopæia of the Hospital for Diseases of the Throat, London.

PREPARATIONS

Chevalier Rust

Stops all External Bleeding and Internal Hæmorrhages. Bottle, 4/6; Magnum, 10/6.

A Magnum contains as much as 3 Bottles.

11. RUSPINI'S ASTRINGENT TINCTURE.

FOR THE TEETH AND GUMS.

This preparation is recommended by the Faculty. Imitations have from time to time been sold under the name of "Ruspini's Tincture." The original Recipe has never been published but remains with the present Proprietor.

A great reduction has been made in the price of this article. Bottle, 2/9; Magnum, 5/6.

SPINI'S DENTIFRICE.

Boxes, 1/6, 2/9, 4/6, and 10/6 each, according to size.

FOR THE CURE OF TOOTHACHE.

An instantaneous Cure. 1/- each Bottle (2 drachms).

All these Preparations are carefully compounded from the Original Recipes in the handwriting of the Chevalier Ruspini. They are wrapped in blue paper with yellow labels, and the Government Stamp bears the signature Ruspini.

WHOLESALE AGENTS:

LONDON ... Messrs. Barclay & Sons. They may also be obtained of Messrs. John Sanger & Sons, Messrs. Lynch & Co. Messrs. F. Newbery & Son, and Messrs. W. Edwards & Son. EDINBURGH ... Messrs. Duncan, Flockhart & Co. GLASGOW

Glasgow Apothecaries' Co. ABERDEEN... Messrs. James Sim & Co. Messrs. Butler & Co., Butler's Hall. DUBLIN BELFAST ... Messrs. Grattan & Co. LIVERPOOL

Messrs. Clay & Abraham. Messrs. Jas. Woolley, Sons & Co. MANCHESTER Messrs. Southall Bros. & Barclay. BIRMINGHAM

LEEDS Messrs. Reynolds & Branson BRISTOL ... Messrs. Ferris & Co.

Messrs. Kernick & Son. CARDIFF CHESTER Messrs. Grindley & Son.

... Messrs. Lofthouse & Saltmer HULL ... Messrs, Clarke, Bleasdale, Bell & Co. Messrs, Ekin & Appleby. YORK BATH

SPECIAL AGENT:

Mr. SILVESTER, Pharmaceutical Chemist, Knutsford.

OSCAR SUTTON & CO., Preston, Lancashire.



O S TOOTH BLOCK

"THE BEST AND SAFEST DENTIFRICE."

DENTIFRICE."
Sold by all Chemists and
Perfumers, in elegantCrystal
Toilet Casket, price 2/6; also
in Patent Metallie Box, price
1/. This celebrated Dentitrice enjoys the approval of
the leading dentists and
highest authorities in sanitary matters.

Hundreds of Testimonials.

TRADE MARK—REGISTEFED.

Dr. J. J. POPE, M.R.C.S., L.S.A., Professor of Hygiene, Birkbeck Institute, Lecturer on the Special Staff of the National Health Society, London (author of "Number One, and How to Take Care of Him"), writes—
"I find your 'Tooth Block' a highly pleasant and most convenient dentiffice. It is as efficacious as it is elegant, and I should say peculiarly adapted for use in youth, from its non-injurious character and mild detersive properties."

Wholesale of Messrs. Evans, Barclay, Hovenden, Miw, Newbery, Thompson Edwards, Sanger, &c., London, and of all the leading Dental Houses; also of Messrs. Felton, Grimwade & Co., Rocke, Compsit & Co., Melbourne, and the principal Colonial Agencies, &c.

Write to above address for particulars.

Title Secured.

Price 2/6. Cases of Six, 14/-



TRADE MARK 27668

INVENTED BY A TALENTED PHYSICIAN.

Recommended by eminent Surgeon-Dentists. Patronised by the "Mondo élégant" as the best and most agreeable liquid Dentifrice yet introduced. PROPRIETORS-

BROTHERS, BRIGHTON. BARTON

Also Sole Proprietors of the Original

GLYCERINE CREAM." "BRIGHTON

WHOLESALE FROM

Messrs. Barclay, E. Cleaver, Edwards, Newbery, Sanger, Sutton, &c.

TO SILVERY Post Free P.O. AN THEROY STATES OF BUT Sole Agents BRO

BEDDARD'S BELGRAVIA TOOTH-PASTE

(REGISTERED)

Is entirely different from any article of the kind, very much liked by customers, a most effectual dentifrice, and handsomely put up in large jars,

ONE SHILLING EACH WHOLESALE OF ALL PATENT HOUSES.

LIBERAL DISCOUNT TO LARGE BUYERS.

Prepared only by

JOHN BEDDARD,

46 CHURTON ST., BELGRAVE ROAD, LONDON, S.W.

PREPARED

GUTTA

For Stopping Decayed Teeth.

TRADE MARK P. A. STEVENS.



CHEMIST AND SURGEON DENTIST, (LATE OF HOXTON, N.)

MANSFIELD ROAD, HAVERSTOCK HILL, N.W.

REGISTERED_NO. 3745.

SOLE PROPRIETOR AND MAKER OF THE ABOVE.

P. A. S. can supply the above to Wholesale Houses in Sheet or Sticks, in any quantity, with their name stamped upon each piece.

The above to be obtained of all Wholesale Houses. Price List and Samples sent Post Free.

SPECIAL NOTICE.—The words SILVERY WHITE GUTTA PERCHA ENAMEL for Stopping Decayed Teeth are registered as a Trade Mark, and will be protected.

WHITE AND TEETH. SOUND

JEWSBURY BROWN'S AND ORIENTAL TOOTH



This old-established and increasingly favourite Dentifrice has been Fifty Years before the Public. It is warranted to retain its properties and keep in good condition in any climate.

The original and only genuine is manufactured solely by

JEWSBURY and BROWN, CHEMISTS, MANCHESTER,

and is distinguishable by the Trade Mark, printed in red and green, a facsimile of which is annexed. Particular attention should be paid to this guarantee of genuineness, as numerous imitations are offered. Sold universally by Chemists and Perfumers, at 1s. 6d. and 2s. 6d.

The Trade and Shippers supplied by the leading houses in London and elsewhere. Bills and Show Cards forwarded on receipt of address card, and directions for enclosure.

Notice to the Trade

GENUINE EAU DE COLOGNE

MANUFACTURED BY

JOHANN MARIA FARINA,

JULICH'S PLATZ No. 4,

A DESCENDANT FROM THE

Original Manufacturer of this Valuable Perfume,

IS KNOWN THROUGHOUT THE WORLD AS

No. 4,

AND SOLD BY ALL THE LEADING WHOLESALE HOUSES.

In 2 oz. Bottles.

In 4 oz. Bottles.

In 6 oz. Bottles.

In 8 oz. Bottles.

In reputed ½-Pint, Wickered.

In reputed Pint, Wickered.

In reputed Quart, Wickered.

In 4 oz. Bottles, Wickered.

JOHANN MARIA FARINA,

JULICH'S PLATZ No. 4,

COLOGNE-ON-THE-RHINE.

By Special Appointment to the Prince of Wales and to several Imperial and Royal Courts.

Possessor of PRIZE MEDALS and DIPLOMAS of the Exhibitions at LONDON, 1851; NEW YORK, 1853; LONDON, 1862; OPORTO, 1865; CORDOVA (Argentine Republic), 1871; and at VIENNA, 1873; SANTIAGO (Chili), 1875; PHILADELPHIA, 1876; CAPE TOWN (South Africa), 1877 (Gold Medal); SYDNEY, 1879; and MELBOURNE, 1880.

Sole WHOLESALE Agents for the United Kingdom and Colonies,

FICKUS, COURTENAY & CO.

ST. DUNSTAN'S BUILDINGS, GREAT TOWER STREET, LONDON.

Wild Thyme (Thymol) 1

COPYRICHT - ORIGINAL AND ONLY CENUINE

Richly Perfumed, and guaranteed to contain the necessary quantity of ULYUERINE for effectivally imparting to the SKIN the softening and healing properties for which it is so justly samed. 1s. 8d. Boxes of Three Tablets, 12s. per Dozen Boxes.

SELECT TOILET PREPARATIONS, extensively increasing in demand, which attests their excellent quality. TOILET SOAPS. Per doz. BOUQUETS. Per doz. POMADES, &c. Per doz. 12 | Cent-Fleur (copyright) ... 8/, 12 | & 20|
Petroleum Pomade ... 12 | & 18| Cent-Fleur (copyright) 2 | 6 Boxes of Stablets 20 | Cent-Fleur (copyright) Jockey Club ", 1 | 6 ", 12 | Jockey Club Bouquet... In Glass Stoppered or Sprinkling Jockey Club Sandringham ... 8/, 12/ & 20 12|6 Ess Bouquet ... **Brilliantine** 1/6 99 Anglo Eau de Cologne Eucalyptus Oil " 1/8 12/ Frangipanni ... "

Semi-Cut Bars " 1/ Bars of 6 kinds 8/6 Lime Tree Blossoms ... White Cherry Tooth Paste Trade Price Lists sent and Orders executed through Wholesale Houses, or direct from the Manufacturers,

WHITAKER & GROSSMITH, 22 SILK STREET (REMOVED FROM), LONDON,

ORTH'S YCF

8

Pearl of Perfumes

Manufacturer: G. H. ORTH, Barmen.

S. G. 1,260, Double Distilled, Perfectly Colourless and Odourless, will stand every chemical test. Lower S. G.'s and inferior qualities also supplied.

LONDON AGENT-

H. RUBECK, 14 MINCING LANE, E.C.

Samples and Prices on application.

<u>|SILL'S FAR-FAMED MONA BOUQUET</u>

Eucalyptus Vinegar

THE ORIGINAL AND ONLY GENUINE. The great popularity of this exquisite Perfume is a proof of its excellence and superior qualities.

T. S. GREENSILL, Chemist, Douglas, Isle of Man, Inventor, Proprietor, and Maker.

AGENTS—London: Sanger; Maw; Edwards; Newbery; Mather; Barclay; Whittaker & Grossmith; Hovenden; Parton & Osborne; Butler & Crispe; Tidman & Son; Barron & Squire; Wright, Layman & Umney; Jno. Thompson; Burgoyne, Burbidges & Co.; Grimwade, Ridley & Co.; Baiss Brothers; Lynch & Co. Liverpool: Evans, Sons & Co.; Clay, Dod & Case; B. Sumner & Co.; Raimes & Co.; Ayrton & Saunders, Manchester: J. Woolley; Lynch & Bateman; Jewsbury & Brown; Mather. Edinburgh: Duncan & Flockhart, Dublin; M. Master; Hodgson. York: Sutcliffe & Headley; Clark, Blessdale. Thirsk: Wm. Foggitt. Bristol: Ferris & Co. Leeds: Goodall & Backhonse. Birmingham: Churchill & Son; P. Harris & Co.; Parton & Osborne; Southall Bros. & Barclay. & Barclay.

Agents for CALCUTTA: Smith, Stanistreet & Co. Montreal: Sugden, Evans & Co. New Zealand: Kempthorne, Prosser & Co. Melbourne: Felton, Grimwade & Co. Introduced in 1852.

Registered Trade Mark—"Tower of Refuge, Douglas Bay."

ARTICLES.

Transparent Glycerine Soap,

In registered Packets of three Tablets, and in oval Tablets in paper. Warranted to contain 33% of the purest Glycerine.

Liquid Glycerine Soap,

Best preventive against chapped hands, and unrivalled for imparting softness to them, and rendering them clean and white. See Testimonials of Professor J. von Liebig, Baron; and of Professor F. Wöhler.

> Double Distilled Glycerine, Chemically Pure, Sarg's

In 1 lb. Bottles, should have a place in every nursery on account of its salutary action on the heads of children, relieving them from dandriff, and the roughness of the scalp they are so commonly subject to.

Sarg's New Carbolic Glycerine Soap,

In Boxes of three Tablets, is highly recommended as a most effective disinfection.

GLYCERINE. CHEMICALLY PURE.

ARG'S DISTILLED CHEMICALLY PURE GLYCERINE, 29° Beaumé, in Cases of Four 56-lb. Tins each. SARG'S DOUBLE DISTILLED GLYCERINE, Chem. pure, 30° Beaumé, in Cases of Four 56-lb. Tins each; Twenty 5-lb. Bottles, Fifty 1-lb. Bottles, and 100 ½-lb. Bottles, with Registered Label.

SOLD BY ALL WHOLESALE CHEMISTS AND DRUGGISTS. SOLE WHOLESALE AGENTS FOR THE UNITED KINGDOM AND THE COLONIES,

SCHMEDES. ERBSLOH

36 & 37 Monkwell Street, LONDON, E.C.; 14 Market Buildings, Flinders Lane, MELBOURNE; 34 Pitt Street, SYDNEY.

ALLCHIN'S

The increasing demand for these celebrated Smelling Salts has induced the Proprietor to bring them out in a more portable and elegant form than hitherto supplied. The New-shaped Bottles will be found well worth the attention of the Trade.

WHITE FLINT GLASS, Handsomely Cut, 3 Sizes, Retail ... 1/6, 2/-, Watch Shape, for the Pocket, 3 Sizes, Retail 1/6, 2/-1/-,

ALFRED ALLCHIN'S PHARMACEUTICAL PREPARATIONS.

SMELLING SALTS.—The MONOCARBONATE OF AMMONIA, manufactured by Alfred Allchin, is the Neutral Salt so much valued for the preparation of Smelling Salts. It retains its pungency as long as any Salt remains. 1-lb. bottles, 2s. 8d. each.

LIQ. AMMON. ODORIF., or VOLATILE ESS., for Allchin's Ammon. Monocarb. In Stoppered Bottles, 4-oz., 1s. 8d.;

8-oz., 3s.; 16-oz., 6s. eacb.

PUNGENTS, with handsome Cut Stoppers, filled with Allchin's Smelling Salts, 8s. per doz.; retail, 1s.

OL. ROSÆ CONCENT.—One ounce of this Concentrated Solution of Anchusine, mixed with two pounds of Oil, will give it the usual colour; it is also admirably adapted for colouring Pomades, Lip Salve, Camphor Balls, &c. 4s. per lb.

OL. FLAV. CONC.—One ounce, added to two pounds of Pomade, will give the usual golden colour, which is permanent.

4s. per lb. Sole Proprietors-

W. BUSH & CO. (late Allchin), Chemists, 180 Barnsbury Road, London. TO BE HAD OF ALL THE WHOLESALE HOUSES.

MODE OF APPLYING IT TO SKIN IS BY THE (or All-Pliant)

The best Article ever introduced for the purpose.

PRICES FROM 22/ to 36/ per doz.

Of all WHOLESALE HOUSES or of the SOLE MANUFACTURER, R. CONDRON, 2 BINGFIELD STREET, LONDON, N.

HENRY MARKS & SONS. SPONGE MERCHANTS,

45 Houndsditch, London, E.C.; and at Hydra & Syra (Greece), and Symi & Smyrna (Turkey).

ESTABLISHED

WHOLESALE AND

ONLY. EXPORT

IMPORTANT TO SHIPPERS.



ASHWORTH'S PATENT METALLIC COMB-BRUSH

AND METALLIC-BRISTLE COMB-BRUSH.

These brushes are delightfully cool to the head, producing a most agreeable sensation, and will penetrate the most luxuriant hair without injury. These hrush landles are also in solid pieces, and hence will not fall apart as in the case of brush landles covered with veneer. The latter brush shows a most remarkable development in metallic brush making. It is made of fine tempered steel wires, about the thickness of ordinary brushes. This penetrates, SMOOTHS, and FIXES THE HAIR. It, to express the words of a user, "Simply perfection as a hair brush, and must, when known, take the place of the bristle brush brush cliet uses." On the brush are to the words of the bristle brush brush in the case of the bristle brush brush and the user. "Prices of Metallic Comb.-Brush post free.

Prices of Metallic Comb-Brush, post free.

Ladies' and Gentlemen's Black Japan, 19, 2/3, 2/9 0

Gentlemen's Black Japan, 19, 2/6, 3/0 0

Dog, Cattle, and Horse Brushes 2,0, 2/6, 3/0 7

Prices of Metallic-Bristle Comb-Brush, post free. o

TEMPERRED FINE STEEL WIRE.

Ladies' and Gentlemen's Black Japan, 2/4, 3/0, 4/0

Troy-coated. 2/8, 3/6, 4/4

The "Humanitas" Curry Comb Brush, for Horses, Dogs, Cattle, &c.—Prices:

Made of iron wire, covered with white metal_No. 1, 1/9 cach; No. 2, 1/6 cach

Made of iron wire, covered with white metal_No. 1, 1/0 each; No. 2, 1/6 each.
, fine steel wire, covered with white metal_No. 0, 1, 1/5; No. 0, 2, 2/0 each.
All Goods are forwarded safely packed in Neat Box.

ASHWORTH BROS., Collyhurst, Manchester, England.

Retail, 1/, 1/9, and 3/6; Wholesale, 9/, 15/, and 30/ per doz. This much-admired Perfume (prepared by the Widow of the late Joseph Okell), may be obtained from the leading Patent Medicine Houses, Wholesale Druggists, and Druggists' Sundry Dealers.

Applications for Wholesale Agencies to be made to the Soli CONSIGNEE, THOMAS WEST, Chemist, Stretford, Manchester.

Chemists' Shop Fitter, Shop Front Builder, and Glass Show Case Maker.

DENTIST CASES.

Plans and Estimates supplied for Work in any part of the Kingdom

9 CAMDEN STREET, LIVERPOOL.

See July issue of The Chemist and Druggist for List of Shop Fitted by W. S. Yates.

SPONGES.

R. CRESSWELL & CO.,

SPONGE MERCHANTS & IMPORTERS,

32 Red Lion Square, London;

AND AT PIRÆUS AND SMYRNA.

ESTABLISHED 1850.



GOLD MEDAL AWARDED, BRUSSELS EXHIBITION, 1881.



Messrs. R. C. & Co. having secured large additional premises in Fisher Street, Red Lion Square, are now in a position to show off one of the most extensive Stocks of Sponges in the world. Buyers can inspect goods by the Case, Piece, or Weight, offered at prices lower than those of any other house.

PRICES CURRENT OF SANDED AND SANDLESS SPONGES,

IN ORIGINAL CASES AS IMPORTED.

HONEY-COMB SPONGES.

								1
					Pieces in	Pri	ce ce	38e.
No.	Olty.				case about			d.
210.		.4 3		4.3	Case about	~	••	u.
1	1st Finest sel	ectea	snapes,	assorted				
	sizes .	•••	•••		130	12	0	0
2	1st Do		do.	***	75	7	0	0
_				•••	• -	•	-	
3	1st Do	٥.	do.	***	45	4	0	0
4	1st Small sele	cted at	hanes .		275	7	0	0
_						-		-
5	1st Superior	do.	large i	sath sizes	25	7	0	0
6	2nd Do. at	ality	shanes.	assorted				
	o. q.		-				0	
		sizes	3		125	8	0	0
7	2nd Do.	de).	do.	75	4	4	0
					• -	_	-	-
8	2nd Good qual	ity sna	apes, sm	aii	275	3	10	0
9	2nd Do.	do.	large F	Bath sizes	25	5	0	0
10	3rd Do.			d sizes	145	5	5	0
				u sizes		•	_	U
11	3rd Do.	do.	do.		90	3	10	0
12	3rd Do.	do.	lance F	Bath sizes	25	3	0	0
				JOHN SIZOS		-	. 0	
13	4th For Stable	use,	šzc.		220	2	10	0
		•						

FINE TURKEY SPONGES.

									ı
14	lst	Finest selected	Cups,	assorted sizes	110	18	0	0	١
		\mathbf{Do}_{\bullet}			55				
16	lst	Do.	do.	Bath sizes	35	12	0	0	ļ

Fine Turkey Sponges-continued.

		-	1110 I U		POHPOR	00,000,000	-	•	
						Pieces in		ice ca	.88
ı	No.	Qlty.				case about	£	8.	d.
	17	2nd	Superior Cu	ips, assorted	sizes	110	12	0	0
	18	2nd	Do.	do.	0-010	55	7	0	0
	19	2nd	Do.	Bath siz	65 🚥	. 35	9	0	0
l	20	3rd	Fine Cups,	assorted siz	e s	110	9	0	0
ĺ	21	3rd	Do.	do.	e0-0	65	5	5	0
	22	3rd	Do.	Bath sizes	*** ***	3 5	7	0	0
	23	1st	Turkey Sol	ids, assorted	sizes	115	7	0	0
	24	2nd	Do.	do.	***	110	5	10	0
	25	lst	Flat Saddle	e, assorted si	zes	55	9	10	0
	26	1st	\mathbf{Do}_{\bullet}	do.	***	35	6	0	0
	27	2nd	Do.	do.	***	55	6	10	0
	28	2nd	Do.	do.	***	35	4	0	0
ı									

BROWN TURKEY SPONGES.

ı										
	29	1st	Finest selected,	assorted sizes		140	4	10	0	
	30	1st	Do.	do.	100	75	2	15	0	
	31	2nd	Superior quality	, do.	0400	140	3	3	0	
	32	2nd	Do.	do.	000	75	2	0	0	
	33	3rd	Slate quality,	do.		350	1	1	0	٠

The above may be had Sanded or Sandless, as required.

ALL COMMUNICATIONS TO BE ADDRESSED TO LONDON OFFICES.

Thei

A PERFECT BOON TO MOTHERS!

ROGFRS'

One application is guaranteed to destroy all Nits and Parasites in Children's Heads, and immediately allay the Itching and Irritation.

allay the Loching and irritation.

It is now used in Thousands of
Families with the greatest success,
and all who have tried it are
delighted with the effect, and
declare it to be worth A GUINEA A BOTTLE.

PREPARED ONLY BY

WILLIAM ROGERS. CHEMIST,

BEN JONSON ROAD. STEPNEY, E. Sold in large Bottles, price ONE SHILLING. Sample Bottle, 7d.

BY ALL CHEMISTS AND PERFUMERS.

Observe! Genuine only in Yellow Wrapper, White Label. WHOLESALE AGENTS.—Barclay & Son; Edwards & Son; Maw, Son & Thompson; Millard & Son; Sanger & Sons; Thompson & Co., Limited; Butler & Crispe; Hovenden & Sons; Newbery & Sons.

JAMES'S TOILET SPECIALITIES.

JAMES'S HERBAL OINTMENT, for the Cure of Pimples. Black Specks, Blotches, &c., and taking away Tan Freckles, Sunburn, &c. Sold by all Chemists, 1/12 and 2/9 per box.

JAMES'S DEPILATORY.

For the instant removal of Superfluous Hair. Sold by all Chemists, 1/- per box.

JAMES'S HERBAL POMADE.

For Promoting the Growth of the Hair, Whiskers, Beard, Moustachios, Eyebrows, and Eyelashes. Sold by all Chemists, 1/- and 2/- per box.

These Articles are well worthy the attention of Chemists, Wholesale Houses, and others, as they are being well advertised.

JAMES & CO., 226 Caledonian Rd. LONDON, N

SANITAR

"The Perfection of Nursery Powders."

(REGISTERED.)

An Antiseptic Dusting Powder for Toilet and Children's Use.

A RELIABLE SUBSTITUTE FOR VIOLET POWDER, FULLERS' EARTH, &c.

"An improvement on the old-fashioned Violet Powders, which are manufactured under very various formulæ. It is an advantage of this Powder as compared with ordinary Fullers' Earth, that it is not liable to cake, and thus to excite irritation."—Beritsh Medical Journal, June 16, 1883.

"Its employment, in nurseries particularly, may be strongly recommended."—Medical Phess and Checular, June 27, 1883.

"As a high-class toilet powder this preparation is likely to enjoy a good deal of favour."—The Chemist and Druggist, July 14, 1883.

In Boxes 1/, 1/9, and 3/, and in Large Bottles at 5/.

Wholesale London Agents-Messrs. W. EDWARDS & SON, 157 Queen Victoria Street.

Proprietors—J. WOOLLEY, SONS & CO., Pharmaceutical Chemists, MANCHESTER.

SHOW TABLET AND HANDBILLS ON APPLICATION.

Robare's

Aureoline,

GOLDEN HAIR

The attention of the Trade is respectfully called to the above Article, now having a large sale, and giving an excellent profit to the Retailer.

5/6 size, 36/ per doz. 10/6 size, 72/ per doz.

SOLE WHOLESALE AGENTS-

R. HOVENDEN & SONS, LONDON.

WOMAN'S Greatest CHARM

It is unequalled for producing a dazzling purity of complexion, and giving it depends of the producing a dazzling purity of complexion, and giving it expulsively in and soft, and showing the delicate blue tracines of the weins so much admired.

Price 6s. 6d. To be had of all Chemists and Perfumers.

Wholesale Agents, MESSRS. NEWBERY, 1 King Edward Street, Newgate Street, London.

O DENTISTS AND CHEMISTS.—Every description of Artificial Teeth made at greatly reduced

charges. Best work and best materials only. An Upper or Lower Set, inclusive of Teeth Rubber, &c., £1 1s. Ditto, ditto, on Platina, £2 2s.

Send for Price List.

Twenty years' experience in mechanical work. LESSONS GIVEN IN MECHANICAL DENTISTRY. F. Buck, 6 Hanover Place, Upper Baker Street, London, N.W.

IMMENSE SALE.

WOODS' ARECA NUT

TOOTH PASTE.

Price, 6d. and 11- per Pot.

Sold by all Wholesale Houses.

BLANCHEUSE,"

One of the Best Preparations now in the Market.

This Article is being largely advertised, and the Tradwill do well to keep it in Stock.

IN WHITE, IVORY, AND ROSE.
1s. size, 7s. 6d. per doz Packets; 5s. Poxes, 42s. per doz

Recommended by

Madame PATTI, Mrs. BANCROFT Mrs. BERNARD BEERE, Mrs. KENDAL, Miss ST. JOHN

And the Theatrical Profession generally.

SOLE WHOLESALE AGENTS:

OSBORNE, GARRETT & CO.. 51 Frith Street, Soho LONDON, W. Proprietor, Madame JULLIET, 86 Fleet Street, E.C.

LOGN

THE MOST ANCIENT DISTILLER,

MARIA FARINA. JOHANN

Opposite the Julichs Place, COLOGNE.

ESTABLISHED A.D. 1709.

PRIZE MEDALS:-LONDON, 1851 AND 1862; OPORTO, 1865; PARIS, 1867; VIENNA, 1873.

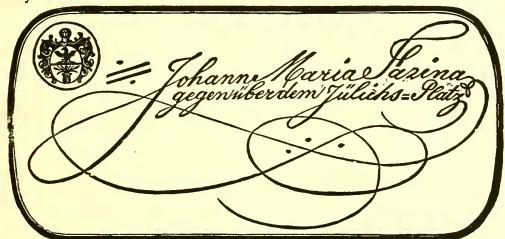
By appointment, Sole Purveyor to Her Most Gracious Majesty Victoria, Queen of Great Britain & Ireland; Their Royal Highnesses the Prince and Princess of Wales; William, King of Prussia;



Albert II., King of Saxony; Alexander II., Emperor of Russia; Francis Joseph, Emperor of Austria; Lewis, King of Portugal; H.R.H. Frederick William, Crown Prince of Prussia,

In consequence of increasing inquiries from the Colonies for my Eau de Cologne, the only genuine, I beg to submit my Price Current.

At the same time I beg to call special attention to the following facsimile of my Trade Mark, for the protection of which I have instituted thirteen suits in the High Court of Chancery, all of which have been decided in my favour.



All similar Labels being more or less imitations of the same, I shall proceed as before against all persons

selling or exposing for sale any such imitations.

I only prepare one quality of Eau de Cologne. This quality never varies in the slightest degree, and there has not been the smallest change in the manufacture since the year 1709, when it was invented by my ancestor.

Orders equal to at least 12 dozen short bottles will be promptly executed at 12s. 6d. per dozen, against my bill drawn at three months from the date of invoice, delivered free on board the export ship, at Rotterdam, Antwerp, Hamburg, or Bremen, no charge being made for the case and packing, but insurance charged extra. 71 per cent. discount is allowed for orders equal to at least 100 dozen, but on no smaller quantities.

I may add that, as I do not draw on the Colonies, all Orders must be accompanied by a credit on some

London House, or permission to draw on same at three months.

The Goods can also be shipped in transit through London at a very small additional expense, full particulars of which may be obtained of my Sole Agents for Great Britain and Ireland:—

MESSRS. J. & R. McCRACKEN,

No. 38 Queen Street, Cannon Street, London, E.C.

The following are the sizes of my bottles:-

No. 1. Long Green Flasks ,, 2. Short White Bottles 12 bottles ditto 8. Double to one dozen. 4. Wickered Bottles (small) (medium) ditto (large)

> JOHANN MARIA FARINA,

COLOGNE: January, 1883.

OPPOSITE THE JÜLICHS PLACE.

PAPER BOX MAKING MACHINERY

MILLBOARD CUTTING MACHINES.
GUILLOTINES.

CORNERING MACHINES.

MANUFACTURED BY

DIVISION SAWING MACHINES.
SCORING-MACHINES.
THUME-HOLE MACHINES, &c.

New Street, Miles Platting, MANCHESTER.

PARCEL
PARCEL
Data

2 oz., 3 oz.,

PARCELS POST BOXES FOR BOTTLES, &c.,

Are perfectly secure and safe for transmission through the Post.

TO BE HAD OF ALL DEALERS.

2 oz., 3 oz., 4 oz., 6 oz., 8 oz., 10 oz., 12 oz., 16 oz., kept in Stock.

Folding Bottle Cases of all Descriptions and Sizes. Price List on application.

PENN STREET WORKS, HOXTON, LONDON, N.



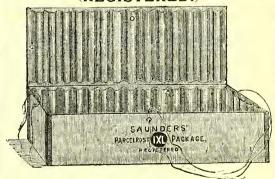
SAUNDERS'

I-X-L SAFETY PARCELS POST BOX.

(REGISTERED.

Made Extra Stout and Edged with Cloth.

These Boxes combine in an eminent degree the requisite strength, lightness, and security necessary for making them the most suitable packages at present known for sending articles of any description through the post, and meeting, to the fullest extent, all the requirements of the Postal Authorities.



Lined with Patent Corrugated Paper.

These Boxes are manufactured in ten different sizes, which are always kept in stock, is particulars given below; but, in addition to these, orders can be promptly executed for any other size, and samples and quotations will at once be forwarded on receipt of business card.

At foot we give two unsolicited Testimonials, selected from the many already received:-

FROM J. EVANS, Esq., DAWSON STREET, DUBLIN.

"You could not have a hetter Box: I have tested it in every way."

FROM MR. GWILYM EVANS, CHEMIST, LLANELLY.
"I am very much pleased with the Sample Boxes sent. It is a very novel idea, and you ought to sell them readily, and in large quantities."

SOLE PROPRIETORS,



AYRTON & SAUNDERS,

Fancy Box Makers, LIVERPOOL.

A FEW OF

S. MAW, SON & THOMPSON'S

SPECIALTIES

Well worth the attention of the Trade.

SPECIAL QUOTATIONS TO WHOLESALE BUYERS.

MAW'S	AROMATIC TOOTH PASTE	•••	•••	Per dozen, 12/.
MAW'S	CHERRY TOOTH PASTE	•••	•••	Per dozen, 4/ and 7/6.
MAW'S	CACHOUS AROMATISES	•••	•••	Per dozen, 2/6.
MAW'S	INDELIBLE MARKING INK	•••	•••	Per dozen, 3/ and 6/.
MAW'S	SAUCE PIQUANTE	•••	•••	Per dozen, 9/ and 15/.
MAW'S	VIOLET POWDER	•••	•••	See Price Current, page 124.
MAW'S	ADHESIVE PLASTER	•••	•••	See Price Current, page 88.
MAW'S	ATMOSPHERIC ODORATORS	•••	•••	See Price Current, page 53.
MAW'S	BREAST RELIEVERS	•••	•••	See Price Current, page 61.
MAW'S	CHEST PROTECTORS	•••	•••	See Price Current, page 65.
MAW'S	COURT PLASTER	•••	•••	See Price Current, page 117.
MAW'S	CORN PLASTERS	•••	•••	See Price Current, page 117.
MAW'S	ELASTIC STOCKINGS, &c	•••	•••	See Price Current, page 35.
MAW'S	ENEMA APPARATUS	•••	•••	See Price Current, pages 39 to 41.
MAW'S	PATENT FEEDING BOTTLES	•••	•••	See Price Current, pages 69, 70.
MAW'S	FLESH GLOVES AND RUBBERS	•••	•••	See Price Current, page 72.
MAW'S	INCORRODIBLE RESPIRATORS	•••	•••	See Price Current, page 47.
MAW'S	INHALERS	•••	•••	See Price Current, page 76.
MAW'S	LINT (TAYLOR'S PATENT)	•••	•••	See Price Current, page 79.
MAW'S	PERFUMERY, &c	•••	•••	See Price Current, pages 117, 118.
MAW'S	SMELLING BOTTLES	•••	•••	See Price Current, pages 95, 96.

S. MAW, SON & THOMPSON, ALDERSGATE STREET, LONDON.

NOTICE TO THE TRADE.

HOLT'S HOOPING COUGH SPECIFIC.

This invaluable and world-renowned Remedy, having been in use for upwards of 80 years, can now be obtained throughout the United Kingdom, of all Chemists, Druggists, and Wholesale Houses; also at the

DEPOT: 63 ST. PAUL'S CHURCHYARD, LONDON.

AGENTS ARE WANTED IN EVERY TOWN.

WHOOPING COUGH PERTUSSIS POST FREE 9d. AND 1/1/4 FROM SOLE MAKER A.J. HEALD, M.P.S., BURNHAM, BUCKS.

This Preparation is recommended to the Trade with confidence as a CERTAIN Cure for Whooping Cough. Any Chemist who knows of a severe case in his neighbourhood will be conferring a favour on the proprietor if he will write for a gratis sample packet of "PERTUSSIS," merely enclosing 1d. stamp for postage, and give it a fair trial. This cannot fail to lead to a demand for the remedy, which only requires an introduction into a neighbourhood where Whooping Cough is prevalent, to command a large sale. Address,

A. J. HEALID, M.P.S., Burnham, BUCKS.



W. EDWARDS & SON,

157 QUEEN VICTORIA STREET, LONDON,

WHOLESALE AND EXPORT DEALERS IN

Patent Medicines and Proprietary Articles,

ENGLISH, AMERICAN, FRENCH, &c.

SOLE AGENTS for ROCHE'S HERBAL EMBROCATION,

Burchell's Anodyne Necklaces, Ford's Balsam of Horehound, Widow Welch's Pills, by Mrs. Smithers, &c., &c.

PRICE LISTS SENT ON APPLICATION. ORDERS CAREFULLY AND PROMPTLY EXECUTED.



BRACHER'S PATENT "Desideratum" Mixing Machines

Admirably adapted for mixing all kinds of powders, heavy or light, in the shortest possible time, thereby superseding to a great extent the use of the Pestle and Mortar, supplying a long-felt want amongst Chemists and Druggists, Grocers, Confectioners, Drysalters, Colour Merchants, and Manufacturers, and are capable of mixing either large or small quantities more quickly than by any other method. They can be worked either with or without the cover, are easily cleaned, and are, without doubt, the best and cheapest Mixing Machines ever invented; indeed, it would scarcely be thought possible that the articles could be so thoroughly blended in such an incredibly short time.

MANUFACTORY: 77 HIGH STREET, WINCANTON.

SECOND.

8 6

10

12

16 6

7 6 6 6

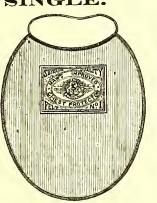
PER DOZEN.

1.

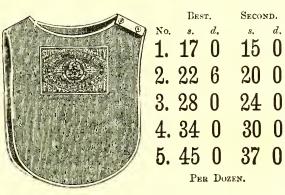
FELT CHEST PROTECTORS.

SINGLE.

THE PROPERTY OF THE PROPERTY O



DOUBLE.



Best-All Scarlet, or assorted Scarlet and White. Second Quality-All Scarlet.

S. MAW, SON & THOMPSON, LONDON.



36s. per dozen.

With Elastic Tube and extra Glass Mouthpiece, 54s. per dozen.



INHALER, EARTHEN

60s. per dozen.

Ditto, with Elastic Tube, 78s. per dozen.

MAW, SON & THOMPSON, LONDON

Spring Flowers,

Ylang Ylang,

Tangerina,

Mignonette.

Rose,



CROWN PERFUMER

177 New Bond St., London,

Beg to draw the attention of Chemists, Druggists, and Perfumery Dealers to their Fine Perfumes, Fancy Soaps, and general Toilet Articles, for the excellent

SEVEN PRIZE MEDALS HAVE BEEN AWARDED.

quality of which

Concentrated Essences of Great Fragrance and Strength:—

Opoponax,

Tanglewood. Jockey Club, Ess Bouquet, Crown Bouquet. Meadow Queen, Wood Violet. Mathiola. Frangipani,

Stephanotis. Rondeletia. White Rose, Jasmin.

In our Patent Crown Stoppered Bottles, or with Sprinkler Tops, 16/, 20/, 28/, 48/, and 84/ per doz.

Supplied in Bond at greatly Reduced Prices.

THE CROWN SOAPS are prepared with great care from the purest materials, delicately perfumed, and very lasting.

WINDSOR, BROWN HONEY, ALMOND AND

GLYCERINE, ROSE, &c.—In Card Boxes of 3 tablets each, 8/ and 12/ per dozen boxes; also in Wood Boxes of 7 or 14 ibs., 64/, 74/, 84/, and 120/ per cwt.

OPALINE FACE POWDER, 3/6 and 7/ per dozen packets; 15/ per dozen Boxes.

OPALINE CREAM, the Finest Preparation made, for the Hands, Arms,

and Neck, 24/ per dozen bottles.

Mme. Adelina Patti writes, "Your Opaline Preparations are nice to use, perfectly harmless, and they produce a charming effect on the skin.

Indents may be forwarded through any English Commission Merchant or Drug House, and wili receive careful attention. Send for Price List.

ALL COMMUNICATIONS SHOULD BE ADDRESSED TO THE MANUFACTORY,

FAIRFIELD WORKS. OLD

RIMMEL'S NEW SANITARY APPLIANCES.



RIMMEL'S AROMATIC OZONIZER, a fragrant powder which, simply spread on a plate in apartments or places of public resort, evolves the refreshing and healthy emanations of the Pine and Eucalyptus, and produces a quantity of Ozone, the great air purifier. Its clean and portable nature renders it far preferable to liquid disinfectants. It is in use in the principal Hotels, Clubs, and Theatres, and also in the Saloons and Cabins of several Lines of Steamships. In 4-oz. Tins, 1s.; 1-lb. Tins, 3s. 6d.; Spreading Plate, 6d.

RIMMEL'S OZONIZED EAU DE COLOGNE, LAVENDER WATER, or FLORIDA WATER, sprinkled on a pad hung up in the air, destroys bad smells and noxious effluvia in sick rooms, closets, &c. It is recommended also to be used on the handkerchief when attending crowded places, visiting the sick, or travelling by land or sea. Price, 2s. 6d. and 5s. per Bottle; Pad, 1s.

RIMMEL'S AROMATIC OZONIZED CASSOLETTE, to carry in the pocket and preserve from infection, 6d. N.B.-500 detailed prospectuses, containing certificates and testimonials, sent with name and address to every purchaser of 3 dozen Aromatic Ozonizer, 1s. size.

SOLD BY ALL CHEMISTS AND DRUGGISTS. THE USUAL ALLOWANCE TO THE TRADE.

PERFUMER TO EUGENE RIMMEL, H.R.H. THE PRINCESS OF WALES, 96 STRAND. LONDON.

THE

The general test of HALF A CENTURY has now established the reputation of these PILLS, composed of rare and expensive Vegetable preparations, combined with a valuable SNOWDONIAN HERB, forming a MILD, LAXATIVE, TONIC REMEDY, superior to all other preparations as a PREVENTIVE AND CURE FOR ALL DISEASES RESULTING FROM A DISORDERED STATE OF THE STOMACH AND LIVER AND IMPURITY OF BLOOD, &c.

Sold by all the Wholesale Houses, and at the Depot, Tremadoc, North Wales. Retailed by all Medicine Vendors in every Town in the United Kingdom and the Continent, in Boxes, at 1s. 1½d., 2s. 6d., and 4s. 6d. each.

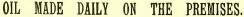
GRAHAM CARR & LLIAM



PHARMACEUTICAL CHEMISTS, IMPORTERS AND MANUFACTURERS OF GOD LIVER OIL, BERWICK-ON-TWEED

ESTABLISHED 1794.

GOLD, SILVER, AND BRONZE MEDALS HAVE BEEN AWARDED TO OUR COD LIVER OIL AT THE EXHIBITIONS HOME AND ABROAD.



SQUIRE'S CHEMICAL FOOD

Syrup. Ferri Phosph. Comp. (Squire).

P. & P. W. SQUIRE, who have for many years been the SOLE AGENTS, have purchased the right and all particulars relating to the manufacture of

PARRISH'S CHEMICAL FOOD.

As prepared by the late Mr. Edward Parrish.

This Tonic has stood the test of time, having been more generally prescribed for the last 20 years than any other preparation of the kind. It is most peculiarly suited for delicate children, not only from its bone-forming properties and agreeable taste, but also from the fact of its containing no poisonous ingredient, which might interfere with its prolonged administration.

To distinguish this preparation orders should be written "Squire's Chemical Food."

SQUIRE, 413 OXFORD STREET, LONDON,

CORNER OF DUKE STREET, GROSVENOR SQUARE, W.



(REGISTERED TRADE MARK).

We have much pleasure in informing the Trade that we are now in a position to supply WHITE FOSSILINE in any quantity at prices below.

WHITE FOSSILINE is a bland, odourless, and perfectly pure hydro-carbon ielly of our own manufacture. It forms a cheap basis for Ointments, Pomades, &c., and is much superior to any other, as it cannot become rancid. It is also unsurpassed in itself as a simple dressing for wounds, bruises, &c.

PRICE-1 lb. Tins, 1s. 8d.; 7, 14, and 28 lb. Tins, 1s. 4d.; 56 and 112 lb. Drums, 1s. 3d. per lb., to account.

SOLE MANUFACTURERS-

EVANS, LESCHER, & WEBB, EVANS, SONS & CO.,

LONDON.

LIVERPOOL

H. SUGDEN EVANS & CO., Montreal, Canada; and Boston, U.S.A.

SUNDRIES DEPARTMENT.

ARCELS POST" ENVELOPES

WF Under special approval of the Postmaster-General, and adopted by the leading Dispensing Establishments in London and the Provinces.

Extract from "The Chemist and Druggist," August 15th, 1883.

"The Parcels Post is responsible for many things. One is a series of boxes brought out by Messrs, EVANS, SONS & Co., Liverpool, under the name of 'Savar's Parcels Post Boxes,' which are made to hold 4 oz., 8 oz., and 16 oz. bottles. They are of cardboard, substantially made. We find that they will bear ill-usage, for we placed the smallest size on the floor, and failed to break it by stamping on it."

FOR MEDICINE BOTTLES			To hold	3	_	-	-	12	16 oz. bottles.
				15/	15/6	17/	18/	20/	22/ per gross.
Fitted with Best Green Flint B	ottles ar		complete		2 9/	33/	34/	46/	50/ ,,

BUBJECT TO THE USUAL DISCOUNT.

We are prepared to supply these Envelopes suitable for any Bottles. &c., which may be supplied to us, and shall be glad to submit samples and quotations.

Although the restrictions are somewhat relaxed as to rural Postmen carrying Medicines, it is necessary that they should be suitably protected, and these Packages are recommended for this purpose.

FOR GENERAL PURPOSES.—CORBYNS		• •	• •		5	10	20	40 oz.
Prices		• •	• •	• •	18/	20/	48/	84/ per gross.
WINE QUARTS, 57	7/.	WINE PINTS, 47/ pe				r gross.)

These are SPECIALLY strengthened.

SAVAR'S PROTECTO

The Felt Protectors are manufactured from the purest Lambswool, purified without the aid of Chemicals, and the Scarlet are coloured with Cochineal only. We do not supply second quality.



Fig. 1

CHAMOIS LEATHER AND FLANNEL-single



FIG. 2.



No	0	1	2	3	4	Đ	
	_	7/	11/6	13/6	16/	20/ per dozen.	
	_	20/	26/	32/	39/	48/ ,,	
	5/	7,6	10/6	13/6	18/	20/	
, 3, and 4)			· · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	• • • • • • • •	13/6 the box.	
•••••	13/	17/	23/	29/	34/	45/ per dozen.	
2 9 Coverin	a Chest an	d Back.					

FELT, Scarlet and White assorted—Fig. 1, single.
Glass-top Boxes, containing ½ dozen each Nos. 1, 2,
Felt Chest Protectors
FELT, Scarlet and White assorted—double Glass-top Boxes, containing & dozen each Nos. 1, 2, 3, and 4 Double Chest Protectors 5 2 "GOOD SAMARITAN," Vest-shape, covering Chest and Back,)

19/ 52/ per dozen. Fig. 3 29/ Fig. 3
Glass-top Boxes, containing ½ dozen each Nos. 1, 2, 3, and 4
"GOOD SAMARITAN" Protectors

The Sizes of Savar's Single PROTECTORS are-The Sizes of Savar's Double Protectors are—
No. 3—13½ × 10½.

No. 3—13½ × 10½.

No. 4—16 × 12½.

No. 3—15½ × 10½.

No. 4—16 × 12½. No. 4-14×12. No 5-15×133. No. $0 - 7\frac{1}{2} \times 6\frac{1}{2}$. No. $1 - 9\frac{1}{2} \times 8$.

No. 1-10½×83. No. 2-12×9½. No. 3-13½×10½. No. 4-16×12½. Single, cover Chest only. Double, and Good Samaritan Vest, cover Chest and Lungs. No. 5-17 \times 14.

SAVAR'S RESPIRATORS.

No.			n e t	AIL.	No.		RETAIL	•
1. 8	Savar's	Gent.	8 METALLIC-Cotton Velvet Pads 1	6 12/ pr doz			7/6	5 0/ pr. doz.
2.			SILVER WIRE, Plated, Cotton		10. ,,	" Open do., do		50/ ,,
	,,	"	Velvet Pads 2/		11. ,,	" Extra Fine SILVER		40/ ,,
3.	**	97	SILVER PLATED, Silk Velvet Pads 3/	6 24/ ,,	12. ,,			40/ ,,
4.	"	22	Fine SILVER PLATED WIRE, Silk		13. ,,		lated, Cotton	10/
			Velvet 4	28/ ,,	1.4	Velvet Pads Silver Plated, Sil	Ur Welvet Dade 2/6	18/ ,, 24/ ,,
5.	,,	,,	Open do., do. (2 plates) 5/	32/ ,,	14. "	Fine SILVER PLATED, SIL		24/ ,,
6.	22	99	Extra Fine do., do 6/	40/ ,,	15. "	The second second	' 41	28/ ,,
7.	,,	29	Fine GOLD PLATED 7/	48/ ,,		Empty Cases for Respirat		20/ ,,
8.	,,,	"	Open do., do 7	/ 48/ ,,		Empty Cases for Respirat	ors, 4/ per dozen.	

EVANS, LESCHER & WEBB,

LONDON.



SOLE MANUFACTURERS-EVANS, SONS & CO.,

LIVERPOOL.

H. SUGDEN EVANS & CO., MONTREAL, CANADA; AND BOSTON, U.S.A.

BOURNE & TAYLOR'S RESPIRATORS

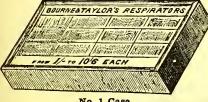
No.			DESC	RIPTIO	٧.						SHAPE.		RETAIL PRICE.	•			WHOLESALE PRICE.
1.	The Shilling Respirator										Oval, ea	ach	1 0			per doz.	0 8 0
2.	Metallic, Cotton Velvet						••				•	11	2 0			"	0 12 0
3.	Silk Velvet P			••				••	••	••		"	2 6	•••		**	0 18 0
3 A.	Silver-plated Wire, Silk	Velvet I	Pads	••	• •	• •		••	••	••		,,	2 6	••	• •	11	0 18 0
4.	22 22	,,	,,	• •		• •	••					"	3 0		• •	***	1 1 0
5.	" "	**	,,				• •	••		• •	Square	,,	4 0		••	,,	1 8 0
5A.	27	**	••	Witho	ut En	ds	••	• •	• •	• •	"	,,	3 6		• •	"	1 4 0
6.	Silver-plated Wire, Ela				• •	• •	• •	• •		• •	,,	"	4 0		• •	99	1 10 0
7.	Gold-plated ,, Sill						• •	• •	• •	• •	**	.,	7 6	• •	• •	99	2 8 0
8.	Threefold Silver-plated		Pads a	nd Silk	Mout	hpiece)	• •	• •	••	,,	,,	6 0	• •	••	29	1 16 0
9.	" Gold-plated,	a::			"				••	• •		,,	7 6	••	••	.7	2 8 0
10.	The Aerial Respirator,			adies.	• •	• •	• •	• •	• •	• •	Oval	"	5 0	••	••	22	1 10 0
11.		Gold-pla Silver-pla		7,000	• •	••	••	••	• •	• •	**	**	6 0	• •	••	• • • •	$\begin{smallmatrix}2&2&0\\1&16&0\end{smallmatrix}$
12.	" "	Gold-pla			••	• •	• •	••	• •	• •		19	6 0	••	••	99	2 8 0
13.	" (The Aeric			***************************************	anith h	lask or	duak	···	• •	••	**	,,	1 0	• •	••	91	2 8 0
14.	Gold-plated Wire, full		e naa e				aruo.	-					7 6				2 8 0
15.	Gold Plates, full size			::		••	••	••	••	••	,,	"	7 6		••	**	2 8 0
16.	Orinasal, Silver-plated		•••			••	••	•••	••	•••	Fquare	31	4 0		• • • • • • • • • • • • • • • • • • • •	"	1 10 0
17.	Ladies' Miniature, Silve			::	::		•••		•••	•••	Ö	"	5 0	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		1 10 0
18.		1-plated							••			"	6 0	- ::		"	2 2 0
19.	The Manifold Respira				r. con		z six	Metall	ic Pla	tes.	,,	"	• •	•••	•••	"	• • •
200	four of which are me	ovable, G	oid-pl	ated	.,						Square		10 6			**	3 12 0
20.	Ditto	litto	•	dit	to		di	tto	• •		Õ1	**	10 6		••	"	8 12 0
	(The Man	fold Resp	pirator	r may b	e worn	with o	r with	out ple	stes A.	and]	B.)	,,				**	
21.	Gents' full size, Silver-	plated					• •				-	,,	5 0			**	1 10 0
22.	,, ,, Gold-p		• •	• •		• •	• •					11	6 0		• •	**	2 2 0
23.	The Cotton-wool Resp	irator, Si	lve r- p	lated		• •	• •	••			Orinasal	11	5 0		• •	,,	1 16 0
24.	,, ,,	G	old-pla	ated						• •	**	12	8 6	• •		"	8 0 0
25.))		,,		••		• •		••	• •	Oval	**	5 0	••	• •	**	1 16 0
		(As reco	mmend	led by I	Profess	or Tyn	idall)										
Man	1 0 and 2														Com	tain 1 Ma	tallic Plate.
NOB.	1, 2, and 3 4, 5, 6, 10, 11, 16, 17,	10 01 0	0 02	94 00	4 05	• •	• •	••	••	• •		•	••			0	Distan
"	7, 8, 9, 12, 13, 14, and					• •	••	• •	••	• •	••		••		1	´ 2	••
"	19 and 20	10	• •	••	••	••	••	• •	• •	••				•	,	, o	"
- 11	10 0110 20	•••	••	••	• •	••	••	••		••	•• •	• •	• •		,	, 0	11

The following New Patterns have recently been added to Stock:-

No. 15A. A Cheap Gold-plated OVAL Respirator, to sell at 3s. 6d. PRICE 30s. PER DOZEN.

No. 25A. Silver-plated OVAL Cotton Wool, to sell at 4s. PRICE 30s. PER DOZEN.

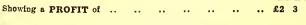
The following assortment contains the leading patterns:—

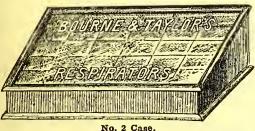


No. 1 Case.

No. 1 Case—

Two each of Nos. 1, 2, 3, 4. One " 5, 8, 10, 12, 14, 15, 17, 18, 20, 21, 22. Producing retail Cost £2 6 8 Less 10 per cent. ..





No. 2 Case.

No. 2 Case-

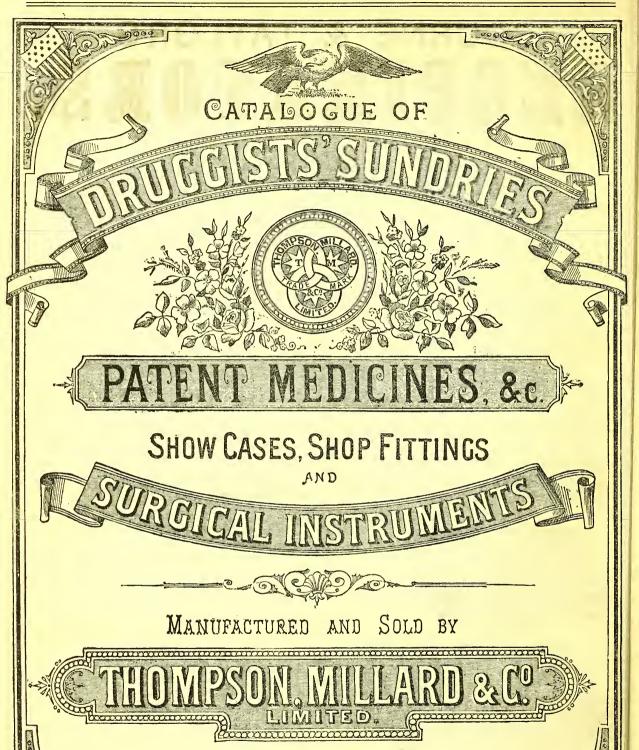
Six each of Nos. 1, 2, 3, 4. ,, 5, 6, 8, 10, 12, 17, 18, 21, 22. Two " ,, 7, 9, 11, 13, 14, 15, 16, 20, 23, 25. Producing retail .. £10 18 6 • • •• .. Cost £5 18 2 Less 10 per cent. 0 11 10 Showing a PROFIT of

With Orders amounting to £2 NET, we will send a Mahogany Glass-top Counter Case, with Hinged Lid, FREE OF CHARGE; and with Orders amounting to £5 NET, a Handsome Mahogany Counter Case (size $22 \times 12 \times 4$), with Sloping Top, Hinged Back, and Sliding Tray.

Each Dozen Chest Protectors put up in a Glass Top Show Box.

BOURNE, LATIMER,

35 CASTLE STREET, HOLBORN, LONDON, E.C.



GREAT EASTERN STREET,

THE ORIGINAL

FELT

PLASTERS

INVENTED AND ESTABLISHED BY

OUNG. HEN

1846. A.D.

ALL FAVOURABLY KNOWN AND OVER GLOBE. THE

PRICES-

Arnicated White Felt Corn Plasters.

Thin, 12 in box (round 6d. boxes) 2/4 per doz. boxes. Thick, 12 in box (original 1s. fancy boxes) 3/4 Thin, 1 gross in box Thick, 1 gross in glass-top box ...

1/10 per gross. 3/0

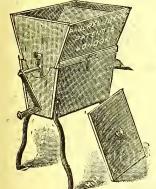
Arnicated White Felt Bunion Plasters.

Small Thin, 6 in box (round 6d. boxes) ... Thick, 6 in box (original 1s. fancy boxes) 3/8 Large Thin, 1 gross in box 4/6 per gross. Thick, & gross in glass-top box ... 6/0

SUBJECT TO THE DISCOUNTS ALLOWED BY WHOLESALE HOUSES.

N.B.—Please see that YOUNG'S Goods are supplied, as there are many worthless imitations.

Manufactory, 72 Clerkenwell Road, London, E.C. (late of CARTHUSIAN STREET).



Is the Cheapest and Simplest, while it is more Effective, more Easy to Handle and More Durable than others.

Suitable for Sifting every description of Powders. Standard size, to sift 20 cwt. of Flour per hour by hand, price £5 10s.

Always in stock at the Sole Manufacturer's—PATENTEE OF THE CELEBRATED

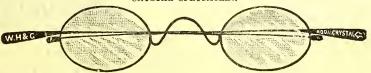
UPPER GROUND ST., BLACKFRIARS. PAUL PFLEIDERER.

HIBRIBERA GODFREY'S WM.

(REGISTERED).

WM. HERBERT & GODFREY beg to draw the attention of Chemists and Druggists to their method of supplying their celebrated AQUA
CRYSTAL SPECTACLES,

W. H. & G.'s Glasses are kept by most of the leading Chemists and Druggists all over the world, W. H. & G. supply their customers, free of charge, with Showcards for Windows, &c., Test Types and Optometer to assist in taking the correct



sight, Pamphlets on "Sight, and How to Preserve it," containing medical testi-monials, &c., &c., and with the customer's name and address printed on the cover; also circulars, posters, &c., &c.

W. H. & G. only supply their goods on the following terms:—5 % off for Cash in ten days; 2½ % off for Cash in three months; or half Cash to be paid in three months and balance in six months, net,

GOODS SENT OUT ON SALE OR RETURN.

For full particulars and { WM. HERBERT & GODFREY, 55a Bernard Street, Russell Sq., London, W.C.

1881, SILVER MEDAL. MELBOURNE EXHIBITION.













BEST ENGLISH & SONS MANUFACTURE

ESTABLISHED 106 YEARS.

OFFICES:

Great Marlborough Street, LONDON, W. FACTORIES: Bonner Road, Victoria Park, LONDON, E.

600 HANDS

KENT'S HAIR BRUSHES. SKITTLE SHAPE.

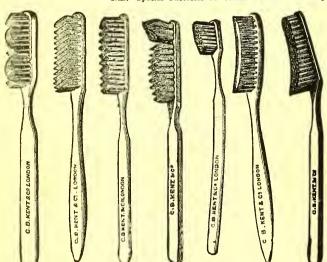
SOUAB SHAPE. G.B.KENT . C.C.





KENT'S TOOTH BRUSHES.

N.B.-Special Factories at Victoria Park are set apart for this one description of Brush.





THE NOVELTY TOOTH BRUSH.
TRIPLE CEMENTED AND EXTRA SECURI Depôt for America: 91 Fulton Street, NEW YORK. Price per doz.

First Quality Quality Third

Quality WARRANTED Fourth

WARRANTED

SECURE

LONDON

5/0

3/6

Fifth WARRANTED Quality

Quality

DINDOS 6/0 8/0 11/0 per doz.

Badger Hair Tooth Brushes ... Children's ,, Tooth Brush Guards ... Japanned Wet Brush Holders

Metal, 3/3 Porcelain, 4/6

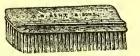
NAIL BRUSHES. KENT'S

ROACHED AND GROOVED.



CONCAVE

SENSIBLE



NAIL

KENT'S CLOTH BRUSHES in WOOD or IVORY. KENT'S HAT BRUSHES in WOOD or IVORY. KENT'S FLESH BRUSHES, Handled or Webbed. KENT'S SHAVING BRUSHES in Badger Hair, &c., &c. OVAL PATTERN.



UNION PATTERN.



KENT'S FITTED LEATHER CASES of various descriptions. KENT'S HAND MIRRORS in Wood and Ivory.
KENT'S COMBS in Ivory, Shell, Indiarubber, &c. NOVELTY" TOOTH BRUSH GUARD.
(Telescope pattern, silver-plated.)

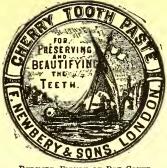
G. B. Kent & Sons' Catalogue of Frices for 1883 is now ready, copies will be forwarded on application.

SPONGES.—At 11 Great Marlborough Street is a Sponge Room worth the inspection of the Trade

ELEGANT! GOOD! SALEABLE!

NET TRADE PRICE: 3s. 6d. per doz.

AS LARGE AND AS PRETTY AS ANY IN THE MARKET.



NET TRADE PRICE: 3s. 6d. per doz.

F. NEWBERY & SONS,

1 King Edward Street, Newgate Street,

LONDON.

J. CO.'S BELL &

SECRETE OIL and UNIQUE VEGETABLE EXTRACT

1 KING EDWARD STREET, NEWGATE STREET, LONDON, E.C.: May, 1883. By an Indenture dated 7th May, 1883, F. NEWBERY & Sons have become SOLE PROPRIETORS of the two Articles above named, and are prepared to supply the same as heretofore.

Net Trade Price for either Preparation ... Retail, 1s., 2s.; per doz., 7s. 9d., 15s. 6d.

F. NEWBERY & SONS (ESTABLISHED A.D. 1746.)

Proprietors also of Berdoe's Triple French Essences, &c.; Brockedon's Patent (introduced AD. 1842) Compressed Tablets of Pure Bi-carb. Potass, Pure Bi-carb. Soda, Chlorate Potass, and Nitro-carbonate Potass; Doughty's Voice Lozenges; Dr. James' Fever Powder; Dr. Steers' (Genuine) Opodeldoc and Camomile Drops, &c., &c.

HOP BITTERS CAUTION.

Our Preparation being duly Registered and Trade Marked under the Laws of Great Britain, and having been placed before the Public at great expense to us, we give notice that we shall fully protect our rights in every instance. Anyone making use of our Title, Labels, Bottles, or in any way attempting to trade on our reputation will be dealt with at once to the fullest extent of the law.

HOP BITTERS CO., London.

We guarantee the sale of Hop Bitters, and authorise you to do the same by your Customers. If at any time you are dissatisfied with them, please return what you have unsold in good condition, and we will remit you the amount paid for same.

HOP BITTERS CO.

Silver Medal, Paris, 1878.







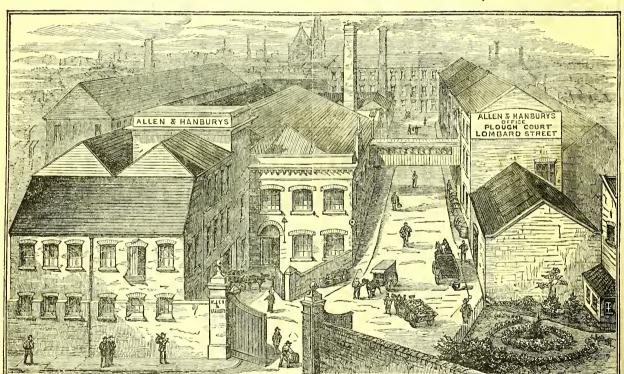
ALLEN & HANBURYS,

WHOLESALE AND EXPORT

DRUGGISTS,

MANUFACTURING PHARMACEUTICAL & ANALYTICAL CHEMISTS,

SPECIAL MANUFACTURERS OF COD-LIVER OIL, MALT EXTRACT, MEDICATED AND OTHER JUJUBES AND PASTILLES, ETC.



WORKS, BETHNAL GREEN, E.

Price List of Drugs, Chemicals, Pharmaceutical Preparations, and Specialties, free on application.

Office: PLOUGH COURT, LOMBARD STREET,

LONDON.

Works: Bethnal Green, London; and Longav, Norway.

电影中的中国中国中国中国中国

馬西西海南西西西西西西

ADVERTISEMENTS. INDEX

Acetic Acid Dunn

Aer & Min Wtrs Esculap
Apollinaris (Hunyadi)
Barnett & Foster (Fruit
Champagne)
Beekett (Winterine)
Chemists Agrated Water
Ellis (Ruthin)
Gallais
Hooper
Larram & Royle Ingram & Royle Jewsbury Mills (various)

Schweppe Taylor Aer Water Plant

Barnett Barnett Bratby & Hinchliffe British Syphon Bush (Foam Producer) Davenport Favarger
May Davis
Stevenson(Foam Producer)
Tyler, Hayward
Vallet
Wilcocks, N. G.

Agencies Abroad

Agencies Abroad
Aickin (Auckland)
Ball, Holson & Co.
Bathgate (Calcutta)
Davison, A. (Kimberley,
S. Africa)
De Caycodo (U.S. Colmba)
Evans, H. S. (Montreal)
Felton (Melhourne)
Fougera & Co. (New York)
Heynes, Matthews & Co.
(Cape Town)
Kemptborne (Auckland,
Dunedin)
Lennon (Port Elizabeth)

Dunedin)
Lennon (Port Elizabeth)
Mason (Calcutta)
Plomer (Simla & Lahore)
Prosser (Sydney)
Rennard (Bombay)
Rocke (Melbourne)
Roberts (Paris)
Symes (Simla)

Almanacs Cassell & Co. Davis Feltwell Kay Silverloek

Analysts

Annatto Fullwood Apparatus

Darton (Thermomtrs, &c.)
Metz, P. (Glass & Porcelain)
Morgan (Crucibles) Orme (Scientific)
Parnall & Sons (Balances)
Pfleiderer (Sifters, Mixers)
Troemner (Scales and
Weights)
Whitall & Tabum

Atomisers

Baking Powder Horsford

Bandages Bailey, W. H. & Son Davidson Rubber Co. Lindsey

Bank & Building Society, Birkbeck Books Baillicre (Ince's Grammar

&c.)
Churchill (Various)
Dobell, Dr., Works by
Keene (Compan. Brit.
Hom. Phar.)
Kilner (Modern Pharm.)
Murray (Kirke's Physiolovy)

logy) Robinson (Receipts) Skuse (Confectioner)
Smith, J. (Aërated Waters)
Whitla (Practical Pharm.)

Bottles

De Luca Hearn Hearn Kilner Lynch Poths Poths
Toogood
Vallet
Whitall & Tatum
See Stoppers

からかななななななない

Boxes
Arundel (Parcels Post)
Ayrton & Saunders
Crosland (Cardbox makers)
Savar (Parcels Post) Brandy Export Co.

Brushes

Ashworth Kent Maw, Son & Thompson Metz (Paint) Wilkinson (Paint)

Camphor

May Murray

Capsules
Betts & Co. (Metallic)
Christiani (Medicinal)
Denoual Durrant (Medicinal)
Gabriel & Troke (Horse-balls) Planten (Medicinal)

Carbolic Acid

Castor Oil Wyleys Harker, Stagg & Moss Allen & Hanbury

Cautions Sussex Drug Co. Burroughs, Wellcome

Cement

Chalk (Precip) Levermore
Changes
Kay-Hornby

Charcoal Coignet (Animal)

Cheken Wylevs Chemicals

Chemicals
Forster
Iflowards & Sons (Pharmaceutical)
May
Newton
Rith (Verdigris)
Smith, T. & H.
Typke & King
Whiffen Zimmermann

Chest Protectors Pattison Savar

Chinolino Zlmmermann

Chlorodyne Davenport Gibson

Chloroform Duncan Macfarlane

Smith Zimmermann Cigarettes Beynon & Stocken

Cocoa and Chocolate

Cadbury Fry's Malted Phillips & Co.

Van Houten Cod Liver Oil Allen & Hanburys Baker, J. C., & Co. (Emul-

Baker, J. C., & Co. (Emulsion)
Carr, Graham
Harker, Stagg & Moss
Scott & Bowne (Emulsion)
Southall Brothers
Woolley
Wyleys
Coffee

Coffee Evans (Conroy's Malt) Phillips & Son

Confectioners Craven (Wholesale) Gibson Skuse (Handbook)

Corn Cures
Faulkner
Hargreaves
Robinson

Savar Seabury Wells, E. S. Young Crucibles

Dentistry
Buck (Lessons)
Smale (Stoppings)
White, S. S. (Materials)

Disinfectants
National Chemical Comp. Sanitas Shilton (Affinitas)

Dentifrices

Beddard Bourne & Johnson Darling (Coffin's) Darling (Coffin's)
Evans
Jewsbury
Maw
Newbery (Cherry Paste)
Ruspini
Sutton
Thompson
Woods

Dog Biscuits and Dog Medicines Spratt

Druggist's Sund Bourne Evansand Sons Lynch Maw

Requa and Wetmore Thompson, Millard

Dyes
Sands Manufacturing Co.
Wells, Richardson & Co. Earthen Goods

De Luca Morgan Poths Toogood

Eau de Cologne Farina, J. M., No. 4 Farina, J. M. (Gegeuüber)

Electric Appar Darton (Bells) D'Or (Light and Battery) Enemas

Davidson Rubber Co. Evans, Sons Ingram Lawrence Savar

Essences (Fruit and Soluble) & Essential Oils Bratby & Hinehliffe Burgoyne Bush (Lemons, &c.) Charras
Felton (Eucalyptus)
Fratelli
Haensel Harker, Stagg & Moss Harker, 1988, 11 lay
May and Baker
Raynand (Lavender, &c.)
Stevenson and Howell
Symes (Lavand.)
Woolley (Sandal)
Wyley (Peppermint)
Tthers

Ethers
May & Baker
Robbins

Extract of Meat Australian (Ramornie)
Brand
Corbyn (Valeutine)
Kreochyle
Liebig Co.
Mottershead (Benger's)
Nelson

Nelson Rigaud (Peptones) Feeding Bottles Bourne Hearn

Filtering Lipscombe (Filters)
Maignen (Filtre Rapide)
Palma (Drawn Glass)
Silicated Carbon

Fly Killers Cooper Helliar Mather (Papers) Foam Producers Bush

Stevenson and Howell Food (Infants' and

Invalids') Brand
Jensen (Peptones)
Kreochyle
Mottershead
Nestle
Ridge, Dr.
Savory
Formulæ

Brooks Robinson

Fuller's Earth Chubb Mather Mumford Ginger Ale

Bingley Cantrell Harston Hay Mills Ross

NACE CONTRACTOR CONTRA

Gelatine Coignet

Ginger Essence &c Fisher Goodall (Beer Powders) Haensel Hay Stevenson & Howell

Gloves, Bath &c Condron

Glue Coignet

Glycerine Orth

Schmedes (Sarg) Zimmermann Granular Pre-

Bates parations Guttapercha

Duncan Stevens

Hair Preparations Cheseborough Evans, Sons James (Pomade) Robare (Aurcoline) Rogers (Lotion) Savar

Herbalists
Allaire Woodward
Butler, McCulloch
Eisner & Mendelsohn
Peck & Velsor

Homeon Medens Butcher Conyngham (Wafers) Leath Thompson and Capper White and Lansdale (Inte Gould)

Hypodermic Injections.

Hypophosphites Forster & Gregory Typke & King Ice

Harrison

Field (Pocket)

Ink Bewley (Drapers') Bond's Daughter (Mark) Bowness (Writing) Duncan Maw (Marking) Murphy (Marking)

Insecticides Bourne (powder) Helliar Steiner

Insurance National Life

Ketchup

Kneading

Pfleiderer Butler, McCulloch

Licorice Mellor & Rittenhouse

Lime Juice Montserrat (see Evans)

Linseed Colthurst Kemp Woolley Wrangham

Lozenges Allen & Hanburys Craven Gibson Towle (Chlorodyne)

Magnesia

Bates Dinneford Henry Murray Malt Extracts

Milit Extract
Allen & Hanburys
Burroughs
Evans, J.
Fry's Cocoa
Harker, Stazg & Moss
Maltine
Wyleys

Match Cases Materia Medica Southall (Collections) Measures, Grad

Medicine Chests Mixing Machines Bracher Pfleiderer

Morphia

Macfarlane Smith, T. & H.

Mustard Finch Metz (leaves)

Musk Symes

Ointment Bases Chesebrough (Vaseline) Evans, Sous (Fossiline) Eweu (lard) Wyley (Ceratin)

Bessemer (Gold) Colthurst Jackson Wilkinson Wrangham

Pancreatino Fairchild Bros.

Paper &c Cameron (Cabinet)

Patent Medicines Atkinson (Infant Preserv) Baker, H. & Co. (Pills) Barclay (Quillata) Bastin (Batmoline) Becechan Bell

Bell
Buxton (Vocaline)
Clarke (Tikheel)
Edwards (General and
Roche's Embrocation) van, S. (Styptic) eltwell (Balsam of Ani-

secd)
Fenuings (Powders)
Geldhart (Galactazogue)
Heyman (Horchound)
Heyman (Booping Cough)
Heyman (Kola)
Himrod Manufacturing CoHoge's Horehound Houey
Holloway (Pills)
Holt (Hooping Cough)
Hop Bitters
Horsford (Acid Phosphates)

pliates) Jones (Aperient Pills)

Jones (Aperient Pills)
Keymer(Sherman's Bit.ers
King (Hop Bitters)
Lalor (Phosphodyne)
Lalor (Phosphodyne)
Lincoln (Clarke's Mxture)
Llewellyn (Elixir Phosphorus)
Maish (Liver pills)
Morrison (Dipsomania)
Newbery (Tyoth paste,
Bell'soil)
Osborne (Drops)
Peek & Velsor
Pritchard (Teething Pow)
Quick (Sweeting's Toothache Linimeut)

Pritchard (Tecthing Pow)
Quick (Sweeting's Toothache Linimeur
Ache Linimeur
Reynolds (Gout)
Roberts (Foreign)
Ruspini (Stypine, &c.)
Sanger (Widow Welch)
Smith (Pills)
St. Dalmas
Stedman (Fever Powders)
Sussex Drug Co.
Thompson, Millard
Tomlinson (Hepaticus)
Wells, E. S.
Woodcock (Pills)

Pepsine &c Bullock
Fairehild Bros.
Gabriel & Troke
Hottot Jensen (Crystallised) Mottershead Rigaud (Peptones) Zimmermann

Perfumery and Fancy Soaps

Brigton Bristow
Burroughs
Chesebrough (Vascline)
Crown Perfunery Co.
Evans, Sons
Greensill
Hovenden Lynch Maw Newbery Norina
Osborne Garrett
Paton (Hygienie Soap)
Ricksecker
Rimmel
Robinson Bros. Savar Schmedes (Sarg's) Violet (Soap) West Whitaker Woolley & Sons

Pens Gillott Macuiven

Petroleum Cassell, Smith & Co. Colthurst

Pharm Preps Atlaire Woodward Allen and H. Baiss Bros. Barron Burgoyne Burroughs Corbyn Corbyn
Duncan
Evans (Fluid Extracts)
Fletcher (Liquors)
Gohriel & Troke Gahriel & Troke
Giles
Heathfield
Hewlett
Keith (Cone Tinctures)
Milhau (Elixir Calisaya)
Parke Davis Rigand Rigand
Savory
Seott and Bowne
Squire (Chemical Food)
Stearns & Co.
Symes
Twemlow (Somnieine)
Whiften
Woolley Woolley Wright, Layman Wyleys

Phosphorus &c Coignet Newton (Acids and Salts) Savory (pills)

Pill Machines Wells, C. (Coater)

Pills (Coated &c) Allaire, Woodward Burroughs Hampson Parke Davis Stearns Warner (Newhery) Woolley Wyleys

Plasters Mather Maw Savar Seabury St. Dalmas

Podophyllin &c Keith

Polishing

Baumgartner Bradley Brown Cheseborough Oakey Pickering Savar

Printing King, W. R. (Handbills) Lambe, J. B.

Quinine Howards & Sons Rigaud (Pelletier's Cap-sules) Whiffen

Respirators Bourne, Johnson Maw Savar

Salicine Smith, T. and H. Whiffen Salicylic Acid

Burgoyne Zımmermann Salines

Lamplough Sauces Evans, Sons Goodall Lazenby

Scales & Weights

Schls of Phrmcy Central School Edinburgh School Edwards

London Homocopathic Hospital Manchester College Owens College South London School of Pha South London
School of Pharmacy
Tully
Westminster College

Seidlitz Powders Chuhh Stedman

Shaving

Cameron (Paper) Hovenden (Lloyd's Euxesia)

Shop Fitters

Bowling Bygrave Curtis, J. & Co. Howlett Lemaitre Toinliuson Treble Vates

Sheep Dip

Cooper

Sifting Machine

Smelling Salts Bush, W., & Co. (Allchin's)

Posp (Soft)

Chiswlek Colthurst

See Perfumery

Spectacles

Darton Herbert and Godfrey

Spirit, Pure and Methylated Burrough (Pure & Meth Harvey and Co. Jones (Methyi.) Smith (Pure)

Sponge

Bourne and Johnson Cresswell Kent Lynch Marks, H.

Peterson Starch

Harrop (Glaze) Mumford (Powder)

Stoppers uplex Lever (" Spring

Strychnine Whiffen

Suppositories

Surgical
Balley
Haywood
Lindsey
Lynch
Maw
Snow

Snowden

Syphons

Barnett British Syphon Fawarger Idns

Syringes Williams, E. C. (Giass)

Thermometers

Tea Great Tower Street Kangra Valley (Indian) Phillips and Co.

Rous Walker & Dalrymple

Tin Canisters Williamson

Trusses

Haywood Lindsey Penfield & Co. Philadelphia S. Co. Seeley

Valerianates

Typke & King

Valuers

Value
Brett
Gadd
Hunt, A., & Co.
Orridge
Taylor and Co.
Tominson
Trimer Tripper

Varnishes

Colthurst Jackson Wilkinson

Violet Powders

Chuhh Rimmel

Verdigris

Rith, A. Vermin Killers

Barher Battle Battle Biggs Helliars Hunter Sanford (Rat Polson) Steiner Welie

Veterinary

Calvert Chesehrough Co. Chesebrough Co.
Cooper
Day, Son & Hewitt
Evans, Sous (Fossiline)
Foster (Roup Pill)
Gahriel Gabriel
Gregory (Vesico-Sudorific)
Helliar
James, R. J.
James, R. S.
Kitson (Pig Powders)
Spong (Pig Powders)
Spratt
Taylor, Thos.

Waters, Distd &c

Raynaud (Rose, Orang Fl)

Wholesale and **Export Druggists** Baise Barron

Barron Burgess Burgoyne Corhyn Fianer & Mendelsohn Evans, Lescher Evans, Lescher Evans, Sons Gabriel & Troke Harker, Stagg & Moss Hewlett Lennon, B. G., & Co. Milhau's Son Peek & Velsor Symes

Symes Woolley Wyleys Wines and Spirits

Burrough Goodall Ingram Rohinson

Wood Stains

Jackson

Zinc Oxide

Bush, W., & Co. (Allchin's) Lock ")	Walker & Dalrymple	Savar Raynaud (Rose, Orang F1) Harris					
Franks Water Water Co. 10	D. 4. T	Jewsbury and Brown 21, 56	Richards, J. M				
Alekeu, G. 109	Davis, J. 10 Day, Son and Hewitt	Jones 32	Ricksecker 103				
Alken, G. 109 Allaire, Woodward and Co. 93 Allen and Hanhurys 40, 122	De Luca, G. V. 131 Denoual, J. 125 De St. Dalmas, A. 182 Dispersional G. 114	Jones	Ricksecker 103 Ridge, Dr., and Co. 4, 65 Rigaud and Dusart 110 Rinnnel, E. 32				
Allen, R. J	Denoual, J	Kay Brothers 14	Rimmel, E. 32				
Apolliuaris Co	Dinneford and Co 114	Kay Brothers 14 Keene and Ashwell 9 Kelth R. and Co 95	Rith, A				
Arundel and Marshall	Dobell, Dr	Kelth, B., and Co	Roberts and Co				
Ashworth Bros. 24 Assistants Wanted 50 Assistants Wanting Situations 50	Dunn and Co	Kelth, B., and Co	Rohinson, B				
Assistants Wanting Situations 50	Duplex-lever Capsule Co	Kent and Sons 38 Keymer Chemical Co. 99	Robinson G. H. 21				
Atkinson and Barker 124 Australian Mart Co. 66 Avrton and Saunders 28	Dinite D	Kilner Brothers 130 Kimpton, H. 7, 10	Rocke, Tompsitt and Co. 108				
Ayrtou and Saunders 28 Baker, J. C. and Co. 92 Hailey, W. H., and Son 80 Baillibre, Tindall and Co. 7 Baiss Brothers and Co. 116	Edwards and Son	Kimpton, H	Ross, W. A., and Co				
Bailey, W. H., and Son	Ellis, R. and Sou 57	Kreoehyle Co	Rous 78 Royal College of Science, Ireland 8				
Baillière, Tindall and Co	Ellis, R., and Sou	La Bourboule	Royal College of Science, Ireland 8				
	Evans, J. 114 Byans, Lescher and Wehh3, 34, 61, 68,	Lambe, J. B	Sanger, J., and Son128				
Barher, T		Kinpton, H	Ruspini, Chevallier 20 Sanger, J., and Son 128 Sanitas Co. (Limited) 514 Savory and Moore 82 77				
Barron, Squire and Co. 112	Evans, Sons and Co. 33, 34, 61, 68, 86, 113 Ewen, J., and Sous		Samora and Son				
DEFICIO DIOS 21	Export Co. 45	Lemaitre and Co	Schmedes and Co				
Rates and Co 78	Paring J M "Gegenther" 27	Levermore Brothers	Schmedes and Co				
Battle, J. R. 76 Baumgartner and Co. 16	Farina, J. M., No. 4	Lienig Co. 43 Lincoln & Midland Countles Drug	Scott and Bowne				
Beokett, W	Export Co. 44 Fairchild Brothers and Foster 88 Parina, J. M., "Gegenüher" 27 Farina, J. M., No. 4 22 Parrow and Co. 70 Faulkner 109	Lincoln & Midland Countles Drug	Seeley 136				
Beecham, T. 129 Beell, W., and Co. 128 Bewley and Draper 82	Farrow and Co.	Co. 124 Lindsey and Sons 152	Scat Report Section Section				
Bell, W., and Co	Feitwell 186	Lipscomhe	Silverlock				
Beynon and Stocken	Fenning 142 Pinch, Rickman and Co. 78	Lipscomhe	Sause, E				
Biggs 17	Pinch, Rickman and Co	Macfarlan and Co	Smale Bros. 21 Swith and Gibh 18				
Biggs and Oliphant 17 Bingley, J. 56	Pielior 57 Fitch and Nottingham 76 Fletcher, Pleteller and Stovenson 6	Maignen, P. A. 55	Smith, J. G. 52				
Bingley, J. 56 Birkbeck Bank 50 Boud's Daughser 83 Bourue, Johnson and Latimer 35	Pletcher, Pletcher and Stovenson 6	Maignen. P. A. 55 Maign. Edwd 128 Manelester School 28 Marks, H. and Sons 24 Mason and Co. 105	Smith J. G				
Bourue, Johnson and Latimer 25	Forster and Gregory	Marks, H., and Sons	Snowden, Wm 96				
Bowling and Govier 48	Poster and Gregory Foster, P. F	Mason and Co	South London School of Pharmacy				
Bowness 44 Bracher and Co 80	Fratelli de Pasquale and Co	Mather, W. 45 Maw, S., Son & Thompson 12, 29, 31, 137					
Bradley and Bourdas	Fry and Sons	May. Dayls	Spong and Son				
Brand and Co. 63 Brathy and Binehliffe 59	Gabriel and Troke	May and Baker 2 Mellor and Rittenhouse 92	Squire, P. and P. W				
Brett, F. J. 48	Gadd, H	Milhau's Son 92 Mills, R. M., and Co. 54 Miscellaneous 51	Spratt				
British Syphon Co	Gibes Schecht and Co. 123	Mills, R. M., and Co	Stevens, P. A. 21				
Brett, P. J. 48 British Syphon Co. 53 Brooks, T. 50 Brown, B. P., and Co. 14	Gillott, J. 73 Goodall, Backlouse and Co. 68, 69 Gould, E., and Son 185 Great Tower Street Tea Co. 69	Montserrat Co. 61 Morgan (The) Crucible Co44, 134	Stevens, P. A. 21 Sussex Drug Co. 5, 135 Sutton, O., and Co. 21 Symes and Co. 122 Symes and Co. 122				
Busk, P. 25 Burgess, Willows and Francis 120	Goodall, Backhouse and Co68, t9	Morgan (The) Crucible Co44, 134	Symes and Co				
Burkoyue, Burnidges and Co 115	Great Tower Street Tea Co	Morrison, Plummer and Co. 99 Mottershead and Co. 116					
Burrough, J	Gregory, C. W 74	Mumford, G. STEXT 514	Taylor and Co				
Bush, W., and Co 24	Haensel, H. 44, 62	Murray, J. 10	Thompson and Capper				
Burfroughs, wellcome aud Co. 81 Bush, W., and Co. 24 Bush, W. J., and Co. 24 Bush, W. J., and Co. 124 Bushcker, W., and Co. TEXT 514 Butcker, W., and Co. 124 Bygrave, J. and W. 46 Cadbury 14 Calvert, J. H. 77 Control 18	Hargreaves, J., and Son 20	Morrison, Flummer and Co.	Thompson and Capper 135 Thompson, Millard and Son 36 Tomlinson and Hayward 74				
Butcher, W., and CoTEXT 514	Harris, P., and Co	Nelson, Dale and Co	Tomlinson, R. 47				
Butler, McCullooh and Co 124	Harrison, W. B	Nestle, H. 67	Tongood, W. 180				
Cadbury	Harston, A., & Co	Nelson, Dale and Co. 66 Nestle, H. 67 Newhery, F., and Sons. 39, 43 Newton, Keates and Co. 127	Tomlinson and Hayward 74 74 75 75 75 75 75 75				
Calvert, J. H	Harvey and Co	Norina 25 Oakey and Sone 16	Treble, G., and Son				
	Greensill, T. S. 223 Haensel, H. 44, 62 Harpreaves, J., and Son 220 Harker, Stagr, and Moss 111 Harris, P., and Co. 83 Harrison, W. B. 38 Harrison, W. B. 38 Harrison, W. B. 54 Harston, A. & Co. 57 Hay, W. A. 60 Harston, A. & Co. 57 Hay, W. A. 60 Hay, W. 60 Hay, W. 60 Hay, W. 60 Hayman, A. 126 Haywood, J. H. 1324 Heald 59	Orme, J., and Co 9					
Carr. W. G., and Sons	Haywood, J. H. 132	Orridge and Co. 48	Tully, J				
Cassell, Smith and Co. 106 Caycedo, G. de, aud Co. 99	Heald 31 Hearn, Riddel and Co. 181 Heathfield 116	Orth, G. H. 22 Oshorne, Garrett and Co. 26	Tully, J				
	Heathfield 116	Owens College	Typke and King 116 Vallet, L 53				
Charras Agrated Waters Assoc 57 Chemists' Agrated Waters Assoc 57 Chemists' Ball 13 Chesebrough Manufacturing Co. 4 Chilewick Soan Co.	Hellar, E	Owens College 8 Palma, L. 109 Parke, Davis and Co. 89	Van Houten 78				
Chemists' Ball	Herhert and Godfrey	Patrison, G	Walker and Dalrymple				
Chiswick Soap Co 19	Herhert and Godfrey 37 Hewlett, C. J., and Son 114 Heyman and Phillips 136 Himrod Manufacturing Co. 90	Paton and Charles	Warner and Co. 43 Wells and Richardson Co. 100, 101				
Curistiani 124 Chubb, J. C., and Co. 18	Himrod Manufacturing Co 90	Peek and Velsor 95	Wells, C. C. 102 Wells, E. S. 104, 105 West, Thomas 24 Westminster College 7				
Churchill, J. and A. 9	Holloway Professor	Penfield and Co	West, Thomas 24				
Churchlil, J. and A. 9 Ularke, Bleandale and Co. 123	Holt	Pfleiderer 37 Philadelphia Truss Co. 108	Westminster College				
Colshurst and Harding 90	Hop Ritters	Philadelphia Truss Co. 103 Phillips and Co. 68	Whiffen, T. 118 Whitell, Tatum and Co. 97 Whitell, Tatum and Co. 136				
Condron, R. 24	Horeford's 95 Hottot Boudault, 107	Phillips and Son	White and Lansdale 136 Whiteker and Grossmith 23 Wilcocks, N. G. 44, 52				
Condron, R. 24 Couyngham and Co. 135 Cooper, William 74 Corbyn, stacey and Co. 1, 8		Phillips and Son	Wilcocks, N. G. 44, 52				
Corbyn, stacey and Co	Howards and Sous 85		Wilkinson, Heywood and Clark 15				
Cox and Co. 117 Craven, M. A., and Son 7.	Hovenden and Sons 19, 20 Howards and Sous 51 Howlett, S. 45 Huggett, S. 123	Poths, H., and Co. 131 Pritchard 126 Pumphrey 50	Wilkinson, Heywood and Clark 15 Williams 130 Williamson and Sons 17				
Cresswell and Co 95	Hunter, J	Pumphrey 50	Woods, M. W. 26 Woolley, Sons and Co. 26, 85				
Crown Perfumery Co. \$2	Hunter, J	Quillau 102 Randall and Son 20 Raynaud C., & Co. 62 Raynaud C., & Co. 131 132 133	Wrongham R. 14				
	Ingram and Son	Raynaud, C., & Co. 62	Wrangham, R. 14 Wright, Layman and Co. 140				
Darling, W. 17	Jackson, T. S., and Sons. 17	Rayner, L. 131	Wyleys and Co				
Darling, W. 17 Darton, F., and Co. 11 Davenport and Co. 54 Davenport I T 18	James, Lieut. 75	Rayner, L. 131 Register, F. 102 Reous and Weimore 102 Recuts of Weimore 102	Wright, Layman and Co. 119 Wrieys and Co. 119 Yates, W. S. 24 Young, H. (G. Pattison, proprietor) 3/ Zimmermann, A. and M. 121				
Davenport and Co	James, R. J. 75 Jensen, Dr. Carl L. 94	Remaru and Co,	Zimmermann, A. and M 121				
24 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Jensen, Dr. Carl L 94	Benshaw 10					

"SOMETHING ABOUT PILLS."

DEAR SIR,—An experience of more than a quarter of a century has served to convince us that Sugar is the only material with which to coat a pill properly. We believe, and are confirmed in this belief by many facts brought to our notice, that failures in expected results are due to the use of gelatine-coated pills and sugar-coated pills not properly prepared. We have devised a method by which our pills are coated with sugar while the pill is in a soft condition, with no direct application of heat and with no sub-coating.

Many so-called sugar-coated pills are coated with combinations of Terra-Alba, Chalk, or Magnesia, and a sub-coating of shellac to prevent staining. Our pills are coated with a quickly soluble coating of sugar only.

Some of the reasons for preferring sugar as a coating over gelatine are :-

First: Sugar is more soluble than gelatine or glue.

Second: With our cold process no direct application of heat is used. To coat a pill with gelatine, it must be dipped into a hot solution at a heat necessary to keep the gelatine fluid.

Third: Gelatine is incompatible with certain foods, also fruits or wines containing Tannin, by which it is converted into a condition the basis of leather. Sugar is not incompatible with any food or condition of the system.

Fourth: Gelatine becomes exceedingly nard n time: sugar, on the contrary, attracts moisture, being hygroscopic. Pills coated with sugar get softer by age, rather than harder.

Fifth: Sugar dissolves evenly from the surface of the pill. A gelatine-coated pill lies in the stomach until the coating bursts. Throw a sugar-coated pill into cold water and see how soon the coating dissolves; try this with a gelatine-coated pill, giving it the advantage of hot water: see how long it takes the coating to swell and burst.

A selected list of WM. R. WARNER & Co.'s Soluble Sugar-Coated Pills is now in stock with many of the leading druggists, as physicians frequently prescribe or order them, thus ensuring freedom from disappointment in effects desired.

Respectfully yours,

WM. R. WARNER & Co., Chemists.

N.B.—The following letter has been received from a prominent Physician:—

DEAR SIRS,—"An ill-founded prejudice led me to use gelatinecoated pills; but I am free to acknowledge, as the result of experience, the more ready solubility of sugar-coated pills as prepared by you."

BRITISH DEPOT:

F. NEWBERY & SONS (ESTABLISHED), 1 King Edward Street, Newgate Street, LONDON, E.C.

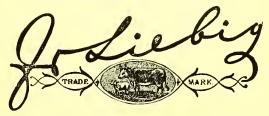
LIEBIC COMPANY'S

EXTRACT

OF MEAT

AN INVALUABLE AND
PALATABLE TONIC FOR
INVALIDS.

Peculiarly efficacious in all cases of Debility and Weak Digestion.



N.B.—Genuine ONLY with fac-simile of Baron Liebig's Signature, in Blue Ink, across Label.



CAUTION.—Inferior substitutes being in the market (sometimes accompanied by misleading analyses and names), Purchasers must insist on having the Liebig Company's Extract. For flavour and clearness is pronounced by all competent authorities to be the best.

ADDRESS CARDS OF

MANUFACTURERS AND IMPORTERS OF SPECIAL PRODUCTS

USEFUL TO CHEMISTS AND DRUGGISTS.

RHENISCH BRANDY.

Warranted free from any artificial essence. Delicate aroma and pure taste.

Considerably cheaper than French Brandy.

(See THE CHEMIST AND DRUGGIST, Oct. 14, 1882, page 457.)

EXPORT COMPAGNIE FÜR DEUTSCHEN COGNAC,

Agents for England and Colonies, F. KRAYN & CO., 11 Leadenhall Street, London, E.C., to whom apply for samples.

HEINRICH HAENSEL,

PIRNA a/d ELBE, SAXONY,

Manufacturer of ESSENTIAL OILS and ESSENCES.

SPECIALITIES:

CONCENTRATED ESSENTIAL OILS, known as Heinrich Haensel's Patent Essential Oils; 1.EMON, ORANGE PEEL, &c., all 30 times stronger, bulk for bulk, than the ordinary Essential Oils.

VERDIGRIS,

In Cakes, Balls, Powder and Crystals. Purity Guaranteed.

CREAM OF TARTAR.

ADOLPHE RITH, MANUFACTURER, MONTPELLIER AND NARBONNE.

TELEGRAPHIC ADDRESS: RITH, MONTPELLIER (FRANCE).

N. G. WILCOCKS' SODA-WATER MACHINE,

To make all the aërated drinks; 100 dozen per day large bottles of highly-charged gaseous water; with the recipes and directions; with machine on Wilcocks' easy terms (£1 15s. monthly for two years); comprises machine in iron frame, gauges, lead generator, copper gas-holder in oak tub, corking rack for corked bottles, "Eclipso" filling machine for patents, all pipes fitted in working order.

Particulars, write to N. G. WILCOCKS, BATH.



ASSAY FURNACES, &c.

THE MORGAN CRUCIBLE CO.,

Sole Manufacturers of
MORGAN'S and SALAMANDER CRUCIBLES,
BATTERSEA LONDON SW

BATTERSEA, LONDON, S.W. All kinds of Crueibles in Plumbago, Clay, &c., Single and in Nests.

Muffles, Scorifiers, Porous Battery Cells, &c., &c. Read "Assay Notes" in this Journal, April 15, 1883.

SATISFACTION GUARANTEED. CORRESPONDENCE SOLICITED.



I offer a perfect BLIJE-BLACK
WRITING INK in bulk. It flows freely
from the pen; does not corrode steel; never
deposits; becomes instantly jet black. It is
carefully manufactured, and there is nothing
better for Schools and ordinary Office work.

It is very cheap. Wholesale Buyers please send
for sample and quotations.

WILLIAM BOWNESS, Workington.

SPONGE.

M. PETERSON & CO., Importers,

LIVERPOOL.

For Home, Foreign, and Colonial Markets.
Wholesale only.

IMPORTANT TO CHEMISTS, WHOLESALE DRUGGISTS, &c.

WILLIAM MATHER,

DYER STREET, CHESTER ROAD,

MANCHESTER,

Manufacturer of every description of Plain and Fancy Cardboard Boxes,

Begs to intimate that he has made a complete extension of the Cardboard Box Manufacturing Business, carried on at his Establishment for a number of years, and, having adopted the latest improvements in Machinery, &c., he is in a position to execute all Orders on the shortest notice, and at the lowest possible prices.

PLAIN, SLIDE, AND SHOULDERED BOXES AS USED FOR CASTOR OIL,

EXTRACTS,

HAIR OILS,

TOILET SOAPS,

PERFUMERY,

PROPRIETARY MEDICINES, CONDITION POWDERS,

PILLS,

SEIDLITZ POWDER BOXES,

LOZENGES, &c.

DIAGONAL POWDER BOXES,

PLAIN AND SHOULDERED SODA POWDER BOXES,

SAMPLE BOXES FOR DRUGS AND SEEDS,

OBLONG PLAIN POWDER BOXES,

OBLONG SHOULDERED BOXES,

SQUARE SHOULDERED BOXES,

SUPPOSITORY BOXES,

MARBLE BOXES,

SLIDING BOXES, &c.

Druggists requiring any special kind of Boxes in colour or size should forward samples.

Quotations forwarded and Samples made on the shortest notice.

VALUE FOR MONEY-IN BEST WORK-THE SUCCESS SECRET

ICAL SHOP FITTERS AND CASE MAKERS.



willing mind makes light employment.

DESIGNERS OF THE NEW PHARMACEUTICAL DISPENSING COUNTER.

CHEMISTS commencing Business or making alterations, should apply to us for Estimate, and see the shops fitted in our modern style.

THE ART JOINERY WORKS, 22 GUN ST., BRUSHFIELD ST., BISHOPSGATE, LONDON.

HIGH CLASS WORK AT MODERATE PRICES.



& W. BYGRAVE, SAME PRICE AS IN TOWN SHOPS FITTED IN COUNTRY

SHOP FITTERS & AIR-TIGHT CASE MANUFACTURERS

12 CURZON STREET, WENLOCK STREET; and

WORKS :- 3 Cropley Street, Wenlock Street, Hoxton, LONDON, N.

CHEMISTS' SHOPS FITTED IN ANY STYLE, 20 PER CENT. LESS THAN ANY IN THE TRADE.

CIRCULAR-FRONT GLASS COUNTER CASES, in French Polished Mahogany, or Ebonized with Spring Fastenings, 30-in. long, from £1 2s. 0d.

FLAT PLATE GLASS CASES, from 20s. per foot run.

MEDICAL LABELLING & GENERAL WRITING GLASS FASCIAS. TABLETS. &

Wood, Glass, and Metal Letters. Bottles and Jars Labelled on the shortest notice.

FOR HOME AND EXPORT.

Our NEW CATALOGUE sent free on receipt of Business Card.

JOHN CURTIS & SON, WADE STREET LEEDS

ESTABLISHED 1852.



SHOP-FITTINGS.

ESTABLISHED 1830.

SAMUEL HOWLETT,

4 LINDLEY STREET (formerly called North St.), SYDNEY STREET, MILE END, LONDON, E.,

A few Minutes' Ride by Omnibus from the Bank,

Messrs. Leath & Ross, St. Paul's Churchyard London.

MEDICAL AND GENERAL SHOP SHOPS FITTED BY S, H., and to whom references are kindly permitted:-

Messrs. Corbyn, Stacey & Co., 7 Poultry, London. Mr. H. Deane, Clapham, London. , John Broad, Hornsey Rise, London. , N. Nicholson, Canonbury, London.

Harvey & Reynolds, Leeds.
Mr. W. F. Smith, 280 Walworth Road, S.B.
Mr. Thomas Hall, Lowestoft.
&c. &c. &10. Cabinet Fitter to the Pharmaceutical Society of Great Britain. Manufacturer of every description of Air-tight Glass She eases for Chemists, Jewellers, &c. Medical Labelling, &c.

Plans and Estimates for Entire Fittings and Alterations supplied.



SHOP FITTERS BY CONTRACT

If New Fittings are required or Alterations become necessary, apply to GEO. TREBLE & SON, whose Travellers will call to take instructions and measurements in any part of the kingdom, and will

BRIDGE WHARF.

and Estimates DRUGGISTS' Free.

prepare Suitable Designs

Agents-S. MAW, SON & THOMPSON, 7 to 12 ALDERSGATE, CITY.

MANUFACTURERS OF COUNTER SHOW CASES. BRASS WINDOW FITTINGS. POLISHED EDGED GLASS SHELVES. DISPENSING SCREENS. COUNTER DRAWERS, DESKS, ETC.

Medical and General

IOP FITTERS

WRITERS, DECORATORS, &c.

ESTIMATES FREE.

SHOW JARS AND COVERS. MEDICAL LABELLING. WOOD AND GLASS LETTERS. FACIAS AND WIRE BLINDS. BOTTLES, CARBOYS, ETC.

PENTONVILLE ROAD, N. 66 NOTICE ! Sole Address.

SHOP-FITTER, SHOW-CASE

AND MANUFACTURER OF DRUGGISTS' SUNDRIES,

JARE, BIRMINGHA VALUATIONS EFFECTED. BUSINESS TRANSFER AGENT. PATENT MEDICINES

Second-hand Fixtures for Sale, Jars, Globes, Drawers, Bottles, Counter Glass Cases, Shelves, &c. SECOND-HAND FIXTURES OF ALL KINDS BOUGHT AND EXCHANGED.

R. T. will wait upon parties fitting up, to plan and advise. 2nd-class fare only charged. FOR SALE, FIXTURES FOR SHOP ABOUT SIXTEEN FEET BY TWELVE. WRITE FOR LIST.

CHEMISTS' TRANSFERS.

32 LUDGATE HILL, LONDON (14 Doors from St. Paul's Churchy 1).

MESSRS. ORRIDGE AND CO., CHEMISTS' TRANSFER AGE TS

May be consulted at the above address on matters of SALE, PURCHASE, and VALUATION.

Immediate attention given to Foreign Commissions.

The Business conducted by Messrs. Orridge & Co. has been known as a Transfer Agency since the year 1846, and is well known to the le

The Business conducted by Messrs. ORRIBGE & Co. has been known as a Transfer Agency since the year 1846, and is well known to the lember of the trade.

VENDORS have the advantage of obtaining an opinion on Value derived from extensive experience, and are in most cases enabled are most likely to possess business qualifications and adequate means for investment.

PURCHASERS who desire early information regarding eligible opportunities for entering business will greatly facilitate their object clearly the class of connection they wish to obtain. N.B.—No Charge to Purchasers.

Particulars of any of the following will be sent free on application:—

- 1. £1.250.—LONDON, MAIN ROAD TO THE CITY.—Retail Dispensing and Prescribing Business; returns at present at the rate of £1,250 yearly; good house; well situated; price £350; part can remain if wished.
- 2. £400.—CRYSTAL PALACE (near.)—Good Class Dispensing and Retail (new business); returns at the rate of £400 yearly; increasing fast; full prices obtained; large house, double fronted shop; price about £400.
- 3. £650.—LONDON, N.W.—Good Class Dispensing and Retail; splendid opening for Dentist; returns £650, with large profits; good house; rent low; long lease; price about £600.

 4. £1,500.—LONDON, S.E.—Wholesale and Retail; very old-established; returns nearly £1,500; good house; long and beneficial lease; fullest investigation permitted; price £1,450.
- 5. £617.—LONDON SUBURB, S.W.—Attractive locality; good class Retail and Dispensing; handsomely fitted shop; returns £617, increasing; good honse; price £600.

Other husinesses, Town and Country, particulars free on application.

6. £800.—WILTS.—Very old established business; re ns averally £870 nt good prices; large double-fronted shop; large added stocked with fruit trees, flowers, &c.; small premium for gowill; 7. £700.—WEST OF ENGLAND.—First-class market to a stablished business; returns nearly £700; large score for items, house, conservatory, &c.; small premium for goodwill; stor fixture valuation.

valuation.

8. £600.—GLOUCESTERSHIRE.—Fashionable locality, un ago good class retail and dispensing returns; £600 yearly; ve price to be arranged; nbout one year's purchase.

9. £200.—YORKSHIRE (scaside).—Mixed business; yearly; large scope for increase; stock and fixtures at premium for goodwill; about £200 only required.

10. £700.—HANTS.—Large town; ready money business rery; able; returns at present at the rate of £700 yearly; have terms easy to an immediate purchaser.

application. Terms for valuation on application.

ORRIDGE & CO., 32 Ludgate Hill, C.

MIDLAND COUNTIES TRANSFER AGENCY. F. J. BRETT,

Trade Valuer and Auctioneer, Leicester.

All kinds of Chemists' Stock and Fixtures valued. Partnerships ranged, Particulars of different classes of Businesses forwarded to Buyers.

To prevent disappointment, it is necessary for gentlemen desirons of securing Mr. Brett's services as a Valuer tlunt appointments should be made as early as possible.

F. J. Brett has always on his Register from 200 to 300 Businesses in all parts, and at a wide range of prices.

Statements prepared for Meetings of Creditors.

F. J. Brett's practical knowledge of the trade in all its branches renders him specially adapted to act as trustee in Liquidations and Bankrupteies. Chemists in difficulties can have their affairs settled by private arrange-

STAFFORDSHIRE.—Good Mixed Retail, in large manufacturing town, returning £1,300; shop is large, of commanding appearance, and well fitted; excellent house, on lease; price £800, and good introduction given.

LEICESTER.—Prescribing and General Retail, with considerable reputation for teeth-extracting, for sale, through death of owner, after a successful occupancy of 30 years; returns now £13 per week; has done double, and with energy could again; for sale, without goodwill, at valuation of stock and fixtures, about £400 to £500.

SHEFFIELD .- Mixed Retail, with Paints and Oils; returns £14 per week; price £400.

KENT.—Fashionable Seaside Resort; returns £1,000 per annum, at full prices (patents excepted); price £650, of which £250 can remain; mouth's introduction given.

WILTS.—Good Family Retail, with fair Dispensing, at good prices; fine double-fronted shop; excellent house, and large well stocked garden; bond fide cause for sale; returns £800; price about £700.

SALE BY AUCTION.

F. J. BRETT is instructed to SELL by AUCTION, in One Lot, as a GOING CONCERN, at the George Hotel, Brighouse, Yorks, in consequence of ndvancing years and infirmities, the Light Retail and Prescribing Business of Mr. J. H. Kershaw, together with the whole of the Stock-in-Trade, Fixtures, Fittings, and Utensils. An excellent opportunity is presented of securing a good connection for a limited ontlay. Sale on Tuesday, October 23. Orders to view can be had of the auctioneer.

SALE BY AUCTION.

F. J. BRETT is instructed to SELL by AUCIION, on Monday, October 29, the old-established Dispensing Business carried on for many years by Mr. Humphreys, for many years at 43 Bull Street, Birmingham. The situation is one of the best in this important town. There is a good connection with surgeons. To a smart man, with knowledge of dentistry, a fortune can be realised. The sale is of a thoroughly bond-fide character, and no reasonable offer will be refused. Cards to view a week prior to sale at the auctioneer's offices, 23 Rutland Street, Leicester.

F. J. BRETT, LEICESTER.

MR. TRIPPIER Medical Agent and Valer 79 ISLINGTON, LIVERPOOL

FOR TRANSFER.

A N Old-established Fnmily, Dispensing, Retail Business, r ming. £1,400; in principal street, large manufacturing town anon Handsomely fitted shop and well-selected stock; proprinced good house on lease; nnyone wanting a really genuine busis will this worthy of consideration; investigation courted.

PRESTON.—An established light Retail, Dispensing, and result business; all ready money; handsome fittings; comfort bouvery low rent.

MID-LANCASHIRE.—A thorough good Prescribing ar Disp Business; established 28 years; thickly-populated logy; re £700: great scope for increase; premises large, on favoide to proprietor retiring.

IVERPOOL, partly in the suburbs, a Prescribing an Dispe Business; 25 years in present hands; doing a problet corner shop, well stocked, great thoroughfare; a bargain; il alth of disposing.

IVERPOOL.—An Old-established Dispensing and Medic Bush very profitable; terms easy; central position.

A FAMILY and Dispensing Business, established 30 y %, we shop, good house and premises, on lease; proprietor having er cuments. A large number of Businesses from £150 to £1,000.

SOMERSET.—A General Retail, Dispensing, Prescribing, and cicul Business; established over 60 years; good dwelling, ward se, stand garden, at very low rent; a gennine business, and can be numer would suit a newly married couple, or man with small family

No Commission is charged to Purchasers.

All information on application. To facilitate matt, a re ence required on parties applying for the first time.

Lists of Stock for Appraisement receive immediate tent

THOS. TOMLINSON & SO,

AND VALUE AGENTS 41 CORPORATION STREET, MANCHI FER 35 YEARS' PRACTICAL EXPERIENCE.

35 YEARS' PRACTICAL EXPERIENCE.
Chemists and Drysalters desirous of either buying or selliusain should nnply as above. Candid and conscientious opinions it upon. Have now for Disposal in Sheffield, Droylsden, Burnler, oldham, Bury, Derby, Nottingham, Yorkshire, Chesbire, 8 acceptable of the control of the

Mers. TAYLOR & CO.

LICENS) VALUERS AND CHEMISTS'
TRANSFER AGENTS,

WALBROK CHAMBERS, 38 WALBROOK,

LONDON. E.C.

Businesses in Town and Country on their Register for Disposal.

centleme seeking suitable opportunities for entering suitable opportunities for entering invited to send particulars of their require-

7. & Co. we also several Mineral Water Businesses for paper, shing excellent profits, and requiring investments to \$250 t 22,000.

tivice gin as to the value of businesses, both to buyers

TAYLOR CO. have been actively engaged for upwards of pars in trade, Vendors and Purchasers consulting them the adutage of their varied and extensive experience.

N.B.-No harge made to purchasers.

HENRY GADD,

Member of the Pharmaceutical Society,

7 FORE STREET, EXETER.

Interiors of valuable and high-class Businesses in London and the point receipt of application, per post or otherwise. Applicants and the point of t

SCALE OF CHARGES FOR

MISCELANEOUS ADVERTISEMENTS.

ARENTICESHIPS.

PARTNERSHIPS

BUSINESS WANTED.

BUSINESSES FOR DISPOSAL.

EMPLOYERS WANTING ASSISTANTS.

WERTISE SNTS appearing under these Headings are charged at the rate of 6d. for 7 lines or under, and 6d. extra for every additional line (att 10 words).

ISSISTATS WANTING SITUATIONS have the liberty inserting Advertisements of 12 words for 1s.; every scaling 3, 4, or 6 words, 6d.

Figure 1. to an Advertisement are to be received at our Office, an the charge 6d. will he added, and this will pay for transmitting same.

**Remittane aust accompany any order for either of the above classes theretisent.

TO LET.

OCHEMIS.—A capital Sbop, good house in thorough repair, good and this populated neigbbourhood; lofty plate glass front, private decentanclowrent, no premium required; no other chemists near; upendid at rare chance for a young beginner. Apply, J. R. Crook, asker, Woodd Crescent, Harrow Road, W.

MIQUIPION.—To Chemists, Druggists, Wine and Spirit Merchants.
To be Lind entered upon at once as a going concern, the business are not by James Jackson, Market Place, Kirbywoodside. Stock at targe, valuation; good opening; first-rate premises. Apply to dired C. I-per, Billiter House, Billiter Street, London, E.C.; or to make the property of the Prank, rk Union Bank, Kirbywoodside.

TO CHEM'S, DRUGGISTS, AND SURGEONS.—Exceptional opportanity obtaining Chemist's premises, excellently fitted, in the more was don; shop fronts to two streets, with two dwelling-houses of being sublet; present 7 years'; tenancy terminable at the terms easy; no premium. Address, Mr. Bridgman, Graltry, adon.

MANON PREET, CITY.—To be Let, a portion of No. 42, over the long this Paper, having an entrance in Cannon Street and in Bow lane, from g Queen Victoria Street, and immediately opposite the Manon He Station. Floors average 2,000 superficial feet. Particularly stapt for Manufacturers' London Show Rooms. May be viewed, and furthe articulars had, on application to the Publisher of The CREMET AT DRUGGIST, 42 Cannon Street, London, E.C.

BUSINESSES WANTED.

WANTED, to Purchase, a genuine Retail and Dispensing Business, returning from £800 to £1,000; only principals need apply, stating full particulars, to G. H., care of Hirst, Brook & Hirst, Leeds.

BUSINESSES FOR DISPOSAL.

POR DISPOSAL, old-establi hed Business; returns £1,000. Apply, S. C. Nutmau, 2 Applegate Street, Leieester.

CENUINE Business in North of London for Disposal, in a leading thoroughfare. Full particulars on apolication, by letter only, to A.B., Messrs. Baiss Bros. & Co., 4 Jewry Street, E.C.

PRICE £320, or ressonable offer; Chemist's Retail. Prescribing, and Dispensing Business, S.E. district (old established); proprietor now about taking a larger business; shop well stocked and handsomely fitted; long lease, low rental. Apply, G. W., 64 Park Street, Southwark.

OUBURB OF BIRMINGHAM.—Excellent Dispensing and Family Business. Returns, \$550; good profits: corner shop, well fitted and stocked; good house and garden; splendid opening for dentistry. Price, \$400. Satisfactory reasons for disposal. Address, Delta, Wyleys & Co., Coventry.

MID WALES.—One of the oldest and best country Drug and Dispensing Businesses, in a good market town, for disposal, the Proprietor retiring; returns, of a miscellaneous character, about £1,800 per annum; rent £35, including good sbop, warebouse, garden, &c. For further particulars, apply "Rus," care of Southall Brothers & Barclay, Birmingham.

FOR DISPOSAL, in one of the most populous and improving suburbs of Leeds, a compact Chemist's Business, with Gilbey's Agency attached; average returns last three years £1,000 per annum (about one-third or less, Gilbey's); rent £30; to a steady, energetic man a certain fortune. Apply, X. Z., Messrs. Goodall, Backhouse & Co., Leeds.

ON SALE, in a beautiful country district in the North of England, a light Retail, Dispensing, and Prescribing Business; doing £8 per week; under management; price £300, half of which can remain unpaid for twelve months on approved security. Apply, 73/36, Office of The CHEMIST AND DRUGGIST, 42 Canuon Street, E.C.

WALSALL.—In consequence of ill-health, proprietor going abroad, a profitable Dispensing, Prescribing, and General Retail Business, in a populous and increasing neighbourhood; returns for year ending Sept. 29, £950, showing an increase of £75 on previous year; rent. £30; ten years' unexpired lease; price £630 cash. J. J. Partington, 45 Caldmore Road, Walsall.

ONDON, N.—Good business neighbourhood; a very profitable Dispensing, Retail, and Prescribing Business; returns nearly £400 yearly; full prices obtained; net profits, £160; well-fitted sbop; good stock; bouse contains 8 rooms; rent, £50; vendor taking a larger business is anxious for an immediate transfer; price, about £250, or offer. Full particulars from Messrs. Orridge & Co., 32 Ludgate Hill, E.C.

WARWICKSHIRE.—In a small and improving town a few miles from Birmingham, a good Dispensing and Family Business for disposal; convenient house with garden; the rent, including taxes, £55 per annum; returns about £1,000; profits large; price, inclusive of stock, fixtnres, and goodwill, £800. Apply "Suburb," care of Southall, Brothers & Barclay, Birmingham.

TO CHEMISTS AND DRUGGISTS.—To be disposed of, with immediate possession, the business of a Chemist and Druggist, situate in a splendid locality in Derby. Fine commanding premises, consisting of double-fronted shop, fitted up in the best style, warebouse and yard at back; also large and convenient dwelling bouse. Stock and fixtures at a valuation. For further particulars apply to T. H. Harrison, A.C.A., 18 Wardwick, Derby.

MUST be Sold at once, having taken a farm; a splendid opportunity for a snug and profitable business in one of the healthiest parts of London, doing a good Prescribing and Dispensing business at full prices; returns by undivided attention may soon be doubled, returns now about £750; rent £70, on lease, large house, £50 of which can be let of; price, all included, £700. L. H., care of Barron, Harvey & Co., Giltspur Street, E.C.

IN consequence of having purchased a larger business. To be sold with immediate possession, at valuation of stock and fixtures; an oldestablished light retail and Dispensing Business, in Birmingham, returning £800; shop large, with handsome plate glass front; in excellent thoroughfare; five minutes from New Street Station. Also valuable lease of the premises [9½ years unexpired), during which there is no rent. Address B. W., Philip Harris & Co., Bull Ring, Birmingham.

PARTNERSHIP.

TO WHOLESALE DRUGGISTS, Drysalters, or other kindred Business.

—A Young Geutleman, with capital and 10 years' experience in the Retail Drug Trade, seeks a Partnersbip as above, where he could take an active part as Traveller, and assist with the books. Address, 73/2, O∉ce of The Chemist and Druggist, 42 Cannon Street, E.C.

EMPLOYERS WANTING ASSISTANTS.

A SSISTANT, Junior Wanted, who understands Postal and Telegraph Business. Apply, stating age, height, salary required, references, and enclose carte (to be returned) to Mr. Warneford, 50 Queen's Road, Brighton.

WHOLESALE DRUG TRADE.—Junior Invoice Clerk Wanted; must be quick at figures and write a good hand. None but those accustomed to a similar position need apply by letter to C. R. Harker, Stagg & Moss, 15 Laurence Pountney Lane, Cannon Street, E.C.

CEYLON.—An excellent opportunity for an energetic business man occurs in Pointe de Galle, through a death vacancy. A moderate amount of capital only required. Apply for particulars to D. P. S., Messrs. Baiss Bros., 4 Jewry Street, E.C.

A JUNIOR ASSISTANT, for a Dispensing and light Retail Business; Churchman preferred; photograph to be enclosed if possible. Apply, stating age, height, reference, salary required, when disengaged, &c., to F. Sussum, 6 Market Place, Cambridge.

ASSISTANTS WANTING SITUATIONS.

WANTED to manage a good Country business with view to purchase.

M., 1A Hamilton Street, Camden Town, London.

EVENING EMPLOYMENT in London by qualified Assistant; highest references. S. W., 34 Brunswick Road, Gloucester.

ASASSISTANT, "Mixed trade;" height 6 ft. 6½ in.; aged 27. Address, S., 3 Broad Street, Bradford.

AS JUNIOR, in a good honse of husiness in London; aged 20; 4½ years' experience; disengaged. J. W. A., Bromham, Chippenham.

L OCUM TENENS; qualified and experienced. "Chemions," 11 Blom-field Terrace, Paddington.

S MANAGER; single, and of good experience in Prescribing and Counter Practice; salary moderate; good reference. Address, R. T., 16 Oxford Road, Kilburn.

S ASSISTANT; aged 22; over 5 years' experience; fluent French; can extract teeth; disengaged early in November. A. B. Scott, 30 West Street, Boston.

A DVERTISER, experienced, with good connection amongst Chemists, Drysslters, &c., is open for one or two good Agencies. Address, V. 86, Guardian Office, Monchester.

A S ASSISTANT, or to Manage a Branch; 12 years on own account; 20 years' experience. Letters to 72/11, Office of The Chemist and Druggist, 42 Cannon Street, E C.

A S MANAGER, Branch or otherwise, by a qualified business man of long experience. Can prescribe and extract teeth well. Unexceptionable references; married; aged 46. Jenner, 195 Seven Sisters Road, N.

WANTED, by the Widow of a Chemist, Situation as Housekeeper with servant; could serve in open surgery or shop during the absence of principal if required; town or snburbs. Address, E, 11 Crogsland Road. Haverstock Hill, N.W.

WHOLESALE DRUGGISTS' SUNDRYMEN AND OTHERS. — A Gentleman of experience and undeniable references desires a position of trust, where, by introducing about £1,000 and active services, he would obtain £300 or £400 per annum. Address, with particulars, to 74/II, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MISCELLANEOUS.

WRITING ON GLASS, Labelling, and every description of Glass Lettering, Sign Writing, &c., undertaken; quotations submitted; estimates furnished for shop fixtures, &c. Apply, Druggists' Sandries Department, Evans, Sons & Co., 56 Hanover Street, Liverpool.

TO TRAVELLERS CALLING UPON CHEMISTS, MEDICAL MEN, and HOSPITALS in Town and Country.—WANTED, AT ONCE, to offer Surgical Instruments and Appliances of Best Quality, on Liberal Commission, from Samples or Illustrated Priced Catalogue. One accustomed to Instruments preferred. First-class references required. Address C. W. & Co., 108 New Bond Street, London.

IMPORTANT TO CHEMISTS.

OUTTING PRICES, Stores, and unfair Competition may be defied by introducing and selling your own medicinal specialities. I shall be glad to post my detailed lists of formulæ, &c., to any chemist at home or abroad. Recipes 1s. 1d. each, 6 for 5s., with full instructions, post free, Terms "Satisfaction guaranteed." T. Brooks, Chemist, Louth, Lincs.

TO CHEMISTS ON DENTAL REGISTER L.D.S.R.C. Diploma (Dub., Edin., or Glas.).

QUALIFY! QUALIFY!

PROFICIENCY, leading to a successful pass may attained by following a most thorough course of tuition, undida may now commence for March Examinations. Terms 01 cepts stamped envelope. Mr. R. Green, 1 Raymond Villas, Terd Re stamped envelope. Walthamstow.

Lantern and Dissolving-View Applatus IME AND OIL LIGHT, Gas Bags, leton Screens, &c., &c. 10,000 Lantern Photographs lain coloured, with descriptive readings. Chemists and rugg dealing in scientific apparatus are requested to se for Illustrated Trade List to the Manufacturer, A. IMPH Stanhope Street, Birmingham.

HONEST COMPETITION

Chemists wishing to compete with Stores and cutting price ould for my detailed lists (post free), containing 190 recipes (Med Specialities, all in actual commerce, HFFERVESCENT SALINE (like Eno's), Perfectly soluble, risk (Vercence, Costs 19d. lb.

RED ROSE LOTION. Elegant preparation for sunburn, fikles.

and skin eruptions.

CORN ERADICATOR (fodiue and salicylic scid). Instarellef, certain cnre guaranteed. Recipes 1s. 1d. cach, 3 for 2s. 6d., witt ll institues. T. Brooks, Chemist, Lonth.

BIRKBECK ESTABLISHED 1851. BANK. - Southampton

Current Accounts opened according to the usual praction of a land of the country of the land of the country of the land of lan full particulars, on application. FRANCIS RAVENSCROL Man

THE BIRKBECK BUILDING SOCIETY'S ANNUAL RECEIPTS EXCEED F MILL TOW TO PURCHASE A HOUSE FOR TWO JIN PER MONTH, with immediate Possession and no I t to Apply at the Office of the BIRKBECK BUILDING SOCIETY.

HOW TO PURCHASE A PLOT OF LAND RR R
SHILLINGS PER MONTH, with immediate possessic eith
Building or Gardening purposes. Apply at the Office of the Building of Gardening purposes. A Pamphlet, with full particulars, on pilos
FRANCIS RAVENSCROFT lang
Sonthampton Buildings, Chancery Lane.

CHEMISTS' & DRUGGIT

DIARY, 1884

NOW PREPARING FOR PUBLICATION

This work is on the desks of thousads Pharmacists in all English-speaking las throughout the year.

Advertisements for insertion shod forwarded without delay.

PUBLISHING OFFICE-

STRIE 42 CANNON LONDON, E.C.

183.

SEVENTEENTH SEASON.

THE

"An Article of Acknowledged Excellence."

The LUNG PROTECTOR" continues to be made only from the same Fine Soft Wool which Is always been used since its introduction 17 years ago. Chemists are cautioned gainst be mendacious assertions of unscrupulous persons who push upon them coarse and merior mitations, the sale of which can only lead to ultimate loss of trade.









UNG POTECTOR. ORIGINA PATTERN.

LUNG PROTECTOR. THE AMERICAN.

LUNG PROTECTOR.

CHEST PROTECTOR.

PRICES -

THE CANADIAN.

				No. 0	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	
Original attern, Seven	sizes	• • •	•••	14/-	18/-	26/-	34/-	42/-	52/-	60/-	per doz.
The American, Six sizes	•••				20/-	28/-	36/-	44/-	54/-	62/-	22
The Cardian, Six sizes	•••	•••	***			30/-					99

No. 0 Prices .. 4/-6/-8/-10/-12/-16/-20/-All in Scarlet and White, and made in same Wool as the "Lung Protector."

Terms: | Wholesale Houses either allow a large Discount for Cash, or quote the goods at Reduced Net Cash prices.

FELT CHEST PROTECTORS, C QUALITY, single and double, each in five sizes. At lower prices than above, and equal to BEST of other makers, but are not recommended.

GEORGE PATTISON,

ROAD, LONDON. JOHN STREET

24/- per doz.





SODA WATER MACHINE.

EASY TERMS.

CATALOGUE FREE. WRITE TO

N. G. WILCOCKS,

BACK STREET, BATH.

Price 5s., post free.

"AËRATED WATERS THEM." MAKE

With Receipts for Non-Exciseable Cordials, American and otr Syrupa and an Essay on the Art of Flavouring; by JOSEPH G)LD. An invaluable handbook for the high-class manufactu.

J. GILBERT SMITH, Publisher, 143 Queen Victoria Stre, E.C.

FRATELLI DE PASQUALE &

LARGO MUNIZIONE, MESSINA, SICILY,

Manufacturers, established on the very growth place, for the Finet

Of LEMON, BERGAMOT, SWEET AND BITTER ORANGE. Recently Awarded at the Exhibitions

CALTANISETTA, 1879—A Gold Medal and 200 Liras for Invention of Machinery to the use of their manufactory, and Silver Medal for Excellence of Produce.

MILAN, 1881-A Bronze Medal for Excellence of Producc.

MELBOURNE, 1881—A First Order of erit for Excellence of Produce.

MESSINA, 1882—A Gold Medal and 150 Lis for an ample set of Machines to the use of their manufact, and a Bronze Medal for Excellence of Produce. A first trial order is quite sufficient to remain convinced of the Excellence of our Essences.

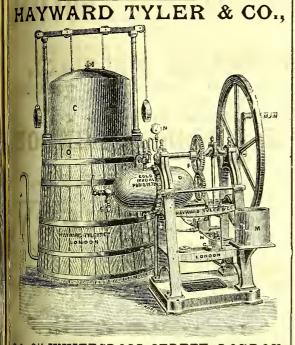
Samples and all Particulars may be had from our Wholesale Agents—

& CO., 137 Fenchurch St., Lonon, SAMUEL LAWBERT

OR FROM MESSINA DIRECT.

GOLD MEDAL

MACHINERY. WATER

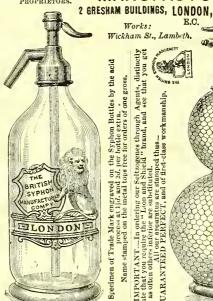


84, 85 WHITECROSS STREET, LONDON.

FIRST - CLASS MEDALS AWARDED " For very superior quality, make, and special excellence in finish.

BRITISH SYPHON THE EUGSTER & KOERTGEN, MANUFACTURING CO.

Works:



d on the Syphon Bott's d 2d, per bottle extra. tops free for orders of of Trade Mark engraved process at 13d. and e stamped on the metal to it, as often others inferior are All our apparatu GUARANTEED PERFECT

SELTZOGENES.

3 pint wire covered, 13/-; cane covd. 13/6
5 " 18/-;
Silver-plated Wire or Top, 5/- extra.
Drop Cups, Measures, Fittings for Repairs, &c. Liberal discount.

Each Seltzogene and Syphon thoroughly tested before sent out.

All metal warranted free from lead.

MACHINE



ENGINEERS & MANUFACTURING CHEMISTS

SYPHONS.

Short Lever...... 22/6 per doz. net. Long , 24/0 White, Blue, Amher, or Green Bottles, Cylindrical or Oval shaped. Silver-plated tops, 9/- per doz. extra.

MACHINERY A SPECIALLY

CIRCULARS & TESTIMONIALS PEST FREE

FURTHER PARTICULARS ADDRESS

Mineral Waters and Gaseous Liquids, Ate now used by upwards of 900 Soda Water Manufacturers

in the United Kingdom.

PRICES (Per Gross).—Patent Stopper, as per Fig. 1, 4/6; ditto, as Fig. 3, 4/6; ditto, as per Fig. 4, 4/6; Patent Stoppered Bottles, ready for use; ditto Half Bottles ditto; Patent Unstoppered Bottles; ditto Half Bottles; Fig. 9 Boxwood Bottle Openers, polished, 8/6; ditto, fitted with rubbers, 10/6; Common Wood Bottle Openers, 5/6; ditto, fitted with rubbers, 7/6; Fig. 10, New Bottle Opener, 6/-.

ROYALTY FREE.

Fig. 1.



Fig. 1 Stoppers, when invoiced separately, are ready fitted with the rubber washer on, and are easily inserted into the Bottle by the simple pressure of the thumb. the washer at the same time folding in the hollow part of the stem when passing into the Bottle, It is the only Stopper which requires no tool to fit the Bottle with; and when a Bottle breaks, which seldom occurs, the Stopper is always fitted with this washer, ready to be inserted in a new Bottle. Therefore it is the most durable and inexpensive Stopper in the trade.

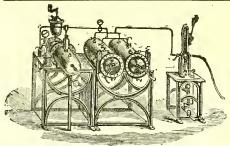
ADVANTAGES.—These Stoppers cannot break the Bottles. The smallest surface of indiarubber ever exposed to the liquid of any Stopper out. The Stoppers are inserted without trouble. No extra cost for Bottles. The Stoppers are cheap, very durable, and particularly clean. The Filling Machine is not expensive, and quick in action. Any Filling Machine, however, will do. The Patentee guarantees the Stoppers perfect gasholders, therefore no leakage is possible. That Bottles may be opened, with or without an opener, by the pressure of the finger.

NOTICE TO THE TRADE.

It having come to my knowledge that certain parties conversant with the great and acknowledged superiority of my Patent Stopper, have so re-modelled theirs so as to constitute a clear case of infringement upon my rights, I wish it to be known that I intend to take such steps against the said parties as may seem desirable, should this notice not be effectual.

Sample and Particulars sent on application to

L. VALLET, 49 EVERTON RD., LIVERPOOL.



SODA WATER MACHINERY

SODA WATER MACHINE COMPLETE, WITH RACK.

ALL

SEPARATE CATALOGUES, POST FREE. BUYING, SEND FOR CATALOGUE TO

99^N High Holborn, LONDON

REQUIREMENTS

ALSO AGENTS FOR

HAYWARD TYLER & BARRETT'S PATENT CO.'S MACHINERY. BOTTLES.

CHEAVIN'S FILTERS.
WILKINSON'S PATENT BEER BOTTLES. CROSSLEY'S AND "BISSCHOP" GAS ENGINES.

And all Appliances connected therewith, for the Manufacture of the Highest-class Waters, by

BARNETT & FOSTER.

26T EAGLE WHARF ROAD, NEW NORTH ROAD, LONDON N Medals-London, 1862, 1873, 1874; Paris, 1867, 1878; Vienna, Philadelphia, Cape, &c. Highest Award, Sydney, 1879-80.

B. & F. are Sole Agents for CODD'S PATENT SODA WATER BOTTLE, in use in all parts of the world. This Bottle for containing Aërated

Waters is the most efficient of any yet invented, and is above all the one most appreciated by the public.

Prices, and all Particulars, upon application.

B. & F. are Sole Manufacturers for the "London-made" Syphon Bottle, preferred by the public to all others. It is the most simple in its working parts, therefore the least liable to get out of order; it is the most easily opened, the lightest pressure on the handle being sufficient; it produces a more highly charged gaseous water than is usually obtained from sypbons; it compares most favour-ably in appearance with any.

Prices, per gross, quart size, 22/ per doz.; duto, pint size, 21/per doz. Packing extra.

ILLUSTRATED CATALOGUE FORWARDED FREE. By Special Appointment to

PATENT

For Aerated Waters, Beers, Wines, &c.

Particulars of this remarkable Machine for Corked Bottles, which, while producing the highest quality, dispenses with skilled labour and breakage of bottles, besides otherwise economising, may be obtained from the PATENTEES—MAY-DAVIS & CO.,

MINERAL WATERS MANUFACTURERS.

ESHER ST., WESTMINSTER; OR FROM

HAYWARD TYLER & CO., STREET. UPPER WHITECROSS

BOURBOULE.

AN EMINENTLY RESTORATIVE MINEPAL WATER. Contains Chloride of Soda, Bicarbonates, Arsenics (28 millig. of arseniate of soda per litre).

per litre).

Dose: Half a glass to three glasses per day before or during meals.

A Regenerator for Weakly Children, and for Debility in Adults; also in Anæmis, Fatty Degeneration, Affections of the Skin and Respiratory Organs, and Intermittent Fevers. Employed as a drink and in gargles for Bronchitis and Sore Throat, and as a drink and lotion in Ringworm, Chaps, and Redness of the Skin.

Anglican Divine service on Sundays.

London: GALLAIS & CO., 37 Margaret Street, W. INGRAM & ROYLE, 119 Queen Victoria Street, E.C. WILLIAM BETTS & SONS, 22 Henrietta Street, Cavendisb Square. Liverpool: EVANS, SONS & CO.

H.R.H. the Duke of Connaught and the Royal Init



PUREST IN ENGLAND.

R. M. MILLS & Co.,

BOURNE, LINCOLNSHIRE,

MANUFACTURERS OF

SODA, POTASH, LITHIA, AND SELTZER W. 3RS, LEMONADE, AND AROMATIC GINGER ALL

4-dozen and 6-dozen Cases Carriage lid.

Pamphlets and Price on application. Agents appoint

National Health Society's EXHIBITION.

LONDON, JUNE 1883.

REAT SUCCESS!

The SILVER MEDAL, the Only ward for Water Filters,

Was granted to

MAIGNEN'S PATENT

On account of its great superiority over all other Filters in point of

EFFICACY,

SIMPLICITY,

AND ECONOMY.

"Thrational Health Society's Silver Medal was awarded to Maignen's 'Filtr' apide' on the score of simplicity and comparative economy."—
The Qui, July 7, 1883.

The Sanitary Institute of Great Britain

Have awarded this excellent Water Filter

NE SPECIAL MEDAL OF MERIT, CROYDON, WO CERTIFICATES OF MERIT, EXETER, NE CERTIFICATE OF MERIT, NEWCASTLE.

Interactional Medical & Sanitary Exhibition, SOUTH KENSINGTON.

CETIFICATE OF MERIT (HIGHEST AWARD).

Brighton Health Congress,

SILER MEDAL (HIGHEST AWARD).

"A ter filter could not be desired."-The Lancet.

"A lly excellent water filter." —The Globe.

"A lly excellent water filter." —The Globe.

"To sanse the whole thing (Maignen's Patent 'Filtre Rapide') all that is requid is to wash off the old filtering medium and deposit a fresh supply on the sets to cloth, an operation very easily accomplished in a few minut and one which can be done without the trouble and expense of return; the filter to the maker."—The Engineer, June 22, 1883.

Lee numbers of Testimonials to be had from the Patentee

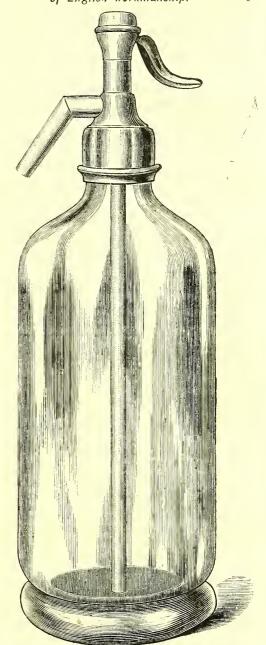
MAIGNEN,

2 & 23 GREAT TOWER STREET, E.C., LONDON.

N. - Cholera, Typhoid Fever, Diphtheria, and other epidemi diseases are spread by specific germs which enter the body ith the air we breathe and the water we drink. In air these erms are dry, and, like the dry grain of wheat, lifeless, but iwater they are already wetted and ready to develop into perfeorganisms when taken into the human system. Maignen's Pater "Filtre Rapide" is guaranteed to remove from water even e smallest of these germs.

THE SYPHO

Is the best in the Market, combining the elegance of the French with the strength and superiority of English workmanship.



Intending purchasers should apply for samples and prices, before placing their orders, to the

Ascham Street, London, N.W.

Tops guaranteed to be made of Best English Tin and free from Lead.

Exhibition

awarded

BINGLEY'S Ginger Ale.

After numerous experiments the Proprietor is enabled to offer a beverage which is considered by many to be one of the *very best* of its kind.

It is manufactured especially for sale by Chemists

doing a family trade.

COMPARISONS ARE INVITED.

Samples may be obtained gratis, also trade terms, on application to

J. BINGLEY, NORTHAMPTON.

Caution

W. A. ROSS, the Original Patentee and Maker of The Celebrated Belfast Ginger Ale, cautions the Public that the "GENUINE" can only be had at



Name on Cork, Capsule, and Label Registered.

EXPORT ORDERS HAVE SPECIAL ATTENTION.

Persons using Aërated Waters should try Ross's, otherwise they will never know to what perfection Aërated Waters can be brought.—Canterbury Journal of Commerce, 17th June, 1882.

CANTRELL & COCHRANE

CELEBRATED

AROMATIC GINGER ALE, SPARKLING MONTSERRIT, CLUB SODA, AND MINERAL WATERS,

As supplied to Her Majesty's Imperial Hous of Parliament,

Have been Awarded TWENTY GOLD ND PRIZE MEDALS at the various International Exhibitions.

Goods for Export are specially prepared, and are guaraned to keep in any climate.

PRICES AND TERMS ON APPLICATION TO-

CANTRELL & COCHRAND BELFAST AND DUBLIN.

JEWSBURY

MANCHESTER

MINERAL WATERS,

PURE SODA, SELTZER, POTASH, LITHIA, &c., LEMONADE,

GINGER ALE, AND QUININE TONIC

Prepared and Bottled specially for Export, and warranted to keep well.

Manufactured with the utmost care and by improved machinery, these productions are recommended for purity and excellence of quality by many leading members of the Medical Profession, and have for many years had a preference by the public; the flavour of the Lemonade and Ginger Ale being procured from the fresh Fruit and Finest Jamaica Ginger, they may be relied upon as furnishing delicious and satisfactory beverages, either for general use or specially for invalids.

upon as furnishing delicious and satisfactory beverages, either for general use or specially for invalids.

The Soda Water is absolutely free from any metallic impregnation, and being by improved machinery highly charged with Carbonic Acid Gas, and each bottle containing a definite and unvarying proportion of Pure Carbonate of Soda, J. & B. have every confidence in inviting a trial from those who have not already patronised them.

The Seltzer, Potash, and Lithia Waters are prepared with the utmost exactitude and the purest ingredients.

The New Quinine Tonic furnishes a pleasant form for the administration of a most valuable restorative, and is refreshing and agreeable.

Ginger Ale (Aromatic) of superior quality, and strongly recommended as a Non-Alcoholic and warm stimulant beverage.

N.B.—Every Bottle is protected by a distinctive Label, with Name and Trade Mark, and each Cork is branded.

Counter Bills and Analytical Reports, with Agents' Names and Addresses, supplied when requested.

JEWSBURY & BROWN, 44 Downing Street, 3 Grosvenor Street, and 113 Market Street, MANCHESTI

10

per cent.

discount

on

Natural

Waters

(See

List, post

FIFTEEN GOOD REASONS WHY ALL CHEMISTS SHOULD JOIN THE

ISTS' AERATED AND WATERS ASSOCIATION, LIMITED,

Gifford Street, LONDON, N., and Montpelier Gardens, HARROGATE.

1.—Because, taking into consideration the superior quality and the style in which the Waters are got up, they are cheaper than any pplied by other Manufacturers.

2.—Because none but Chemists (Shareholders) can purchase the Waters direct; consequently, when a Chemist has created a sale, he not be undersold by Grocers; whereas, if he purchase from other manufacturers, he will generally perceive that if he succeed in establishing ready sale for any brand, the same Waters will soon be found to be offered by Grocers, Wine Merchants, &c., in his locality, at a lower ice than that at which he can afford to sell.

3.—Because the Waters are acknowledged to be of the first and parest quality, being carefully filtered, and passed through silverad machinery, thereby preventing the possibility of any contamination whatever with injurious metals.

4.—Because, in addition to the ordinary Waters, Soda, Potash, and Lithia Waters can be obtained of B.P. strength, and every
semist should stock some of these, as when Waters are ordered to be taken medicinally, B.P. preparations should always be supplied.

N.B.—At the Food Exhibition, Agricultural Hall, 1881, the Association's B.P. Waters obtained the only Prize Medal, and at Bradrd Exhibition, 1882, the Highest Medal was awarded.

5.—Because goods are invariably despatched on same day as order received, carefully and well packed in strong bin cases, thereby eventing breakage in transit. Town goods are delivered by the London Parcels Delivery Company, Limited, and empties collected free, 6.—Because the hest Syphons, with tops manufactured from the purest tin, are used; also first-class ordinary bottles, carefully red and lahelled, and corked with superior corks.

7.-Because the labels state the exact strength of the Waters-an Essential for Chemists' Trade.

8 .- Because every Chemist who joins is assisting in making the Association Waters famous, and is consequently helping his brother nemist, while advancing his own interests.

9.—Because Chemists will learn what great power they possess when combined, and how well they stand in competition with other adesmen, provided only they are loyal to each others' interests.

10.—Because ahout 650 Chemists have joined, and PROVED that they derive considerable henefit from combination.

-Because "ESCULAP" can be purchased in original packages by the Shareholders on very advantageous terms. CARRIAGE AID to any part of the Kingdom.

12.—Because Seltzogenes of first quality can, when required, be obtained for members at a liberal discount.

13.-Because about 650 Chemists ask you to joiu with them.

14.—Because the larger the combination, the larger the dividends.

15 .-- Because all NATURAL MINERAL WATERS can now he purchased through the Association at cheaper rates than n he procured elsewhere.

EW AND IMPORTANT DISCOVERY.

NGER GINGER.



HASSALL, F.C.S. Analysis by Drs. J. H. D., and Orro Hehner,

The diff lty of using Ginger in the Manufacture of "Ginger Ale," and at the same ti having a CLEAR and SPARKLING DRINK, has, after much labour

Masrs. HARSTON & CO., of LEEDS.

ABSOLUTELY PURE." SEE ANALYSIS, sent post free on application.



ESTABLISHED 1825.

"CR TAL SPRINGS." Renowned for their purity for HALF-ACENT Y. Situated on the premises, and exclusively the private pro-

Sold otass, Seltzer, Lemonade, Aromatic Ginger Ale. For Gout; Lithia Water, d Lithia and Potass Water. Corks branded—"R. ELLIS & SON, RUTH," and every Label is registered, and bears their Name and Trade Mark.

Sold Everywhere, and Wholesale of

R. FLIS & SON, Ruthin, NORTH WALES,

Manufacturers to the Royal Family. Lone Agents: W. BEST & SONS, Henrietta St., Cavendish Square.

FISHER'S

SOLUBLE ESSENCE OF GINGER, SOLUBLE ESSENCE OF LEMON,

GINGER ALE ESSENCE ARE THE BEST YET INTRODUCED.

Dr. Thresh says of the Ginger Essence: "It is by far the best Soluble Essence I have yet seen, and I doubt the possibility of making a stronger or better.

Prices and Samples from the Maker,

GRANTHAM.

& F. J. TAYLOR'S



Newport Pagnel.

SODA, POTASH, SELTZER, AERATED (without Alkali), and LITHIA WATERS. LEMONADE AND GINGER ALE

Eich Bottle is protected by a Label bearing the Signature of the Firm.

Parity and Excellence of the Water certified by malysis by Professor Attrield, Ph.D., F.C.S.

HAW'S

FOR THE PRODUCTION OF

THE FINEST LEMONADE.

Added in the proportion of one fluid ounce to each gallon of syrup, the soluble essence imparts the most delicious flavour of the Lemon. -The Chemist's Journal.



The Essence mixes well with water, and has a delicate flavour. The Lemonade made therewith has a far more delicate flavour than that generally met with .-The Chemist and Druggist,

Trade Price, 8.6 per lb.; 12 lbs. and upwards, 8/.

PREPARED BY

W. HAY, Manufacturing Chemist, BEVERLEY ROAD, HULL.

HAY'S GINGER CHAMPAG

INGRAM ROYLE.

119 QUEEN VICTORIA STREET, LONDON, E. AND BATH BRIDGE, BRISTOL.

Retail Price, in Half Champagne Bottles, 5/6 per oz.

This SPARKLING, EXHILARATING, and REFRESHING DRINK hile being far more agreeable in houquet and flavour than the FINEST C.M. PAGNE WINE, is, at the same time, unlike it, FREE from ALCOH.

It is strongly recommended both for Juveniles and Adults, &c., the

most Wholesome Stimulating Beverage that has hitherto heen intro ced, and should be in every honsehold during all seasons of the year.

Samaritan Free Hospital, Lower Seymour Street Portman Square, London Y.

Dear Sir,—I have tried your Gluger Cham me, which I find to be excellent, and I look upon is a step in the right direction towards meeting a sugfett want. Our Senior Physician, Dr. Henry Sige, has also tried it, and is much pleased with i We ought long ago to have had such a beveraged I believe that a great deal of drinking would thu are been prevented. I wish your effort much succe

I am, dear Sir, yours faithfully, GEORGE SCUDAMORE, Secre y.

An excellent and most agreeable heverag -The Lancet.

Made by Mr. Hay, of Hull, with his well-own SOLUBLE ESSENCE OF JAMAICA GENER, take ank as a PURE, WHOLESOME, STRULLATING, and SONALCOHOLIC beverage,—British Medical Journal.

One of the most delicate and wholesome dr s in the market .- Medical Press.

SOLE MANUFACTURER-W. HAY, Chemist, &c., 4 Regent's Terrace, HLL,

WINTER PUNCH.)

The Best Substitute for Brandy. An Invaluable Stomachic and Stimulan CAN BE USED WITH EITHER HOT, COLD, OR AERATED WATER.

"Beckett's Winterine is a capital drink, possessing an agreeable aromatic fragrance and a delicate flavour that will gain universal favour."
"Beckett's Winterine is likely to suit nearly every taste."—Church of England Temperance Chronicle.
"Beckett's Winterine is an excellent drink."—The Grocer.

"It cannot fail to recommend itself both to the medical profession and the public generally after a single trial."—C. HATHAWAY, Eq., M.D., ath. Pints, 1s. 9d. (sufficient for 20 tumblers); Half Pints, 1s.; Quarter Pints, 6d.

Sole Manufacturer, W. BECKETT, HEYWOOD, MANCHEST R.

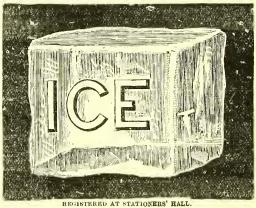
Wholesale Agents-BARCLAY & SON, SANGER & SON, EDWARDS & SON, &c., &c.

FOREIGN

MINERAL WATERS

FREDERICKSHALL (5 Cases, 6d. per Cases less), 23/ Case, 30 bot.; 39/ Case, 60 ½-bot. APOLLINARIS WATER, 25/- Hpr., 30 bts.
39/- Hpr., 100 ½-bts.
Carriage paid. Hampers free.
5 per cent. discount if 20 Hampers.

SELTZER ... PULLNA __ 18/- Case, 20 bts. __ 30/- Case, 50 h-bts. VICHY... 50 bts. 50 }-bts. CARLSBAD ... KISSENGEN → 37/-50 bts. ··· 42/6 50 11 SCHWALLBACH 27/6 HOMBURG 40.'-WILDUNGEN 43/-50 CARLSBADS ALTS, 2-Bots., 20/- per doz. 2-Bots., 40/- per doz.; Bot., 80/- per doz.



NORWAY BLOCK CE

FROM FINEST LAKES I CHRISTIANIA.

Professor Frankland's report with an is: "The Ice is exceedingly pure, and contistes foreign matter than any water with wh I am acquainted in this country."

Original Blocks (2 to 3 cwt. each) 2s. 0d. pe wt. 1 cwt. to 2 cwt. ... 2s. 6d. pe wt. d. pe b.

1d. pe b. Under 1 cwt. Packing free. Utmost promptitude in atch

W. B. HARRISO

Importer of Ice and Mineral Viers,

6 BRIDGE ST., SUNDERLA

W. J. BUSH & CO.,

Distillers and Importers of

ISSENTIAL OILS AND FRUIT ESSENCES,

SOLUBLE ESSENCES FOR AËRATED WATER,

ND CORDIAL MANUFACTURERS,

Extra Super Lemon, which is double the strength of ordinary commercial qualities.

W. J. B. & CO. Caution the Trade against the so-called soluble Essences now so frequently offered for sale, which are nong more than mere tinctures, and, although offered at lower prices, cost five or six times as much in use, whilst imparting a stig medicated flavour.

NONE OTHERS ARE GENUINE.

IRENCH CREAM GUM EXTRACT.

PROTECTED BY ROYAL LETTERS PATENT.

For producing a head of Creamy Richness upon all kinds of Syrups, Aerated Waters, Beers, Ales, Cider, Champagne, &c., 2s. 6d. per pound.

W. BUSH & CO. regret having to CAUTION the Trade against spurious imitations of this article, most of which being mere rubbish.

W. J. BUSH & CO.'S NGLISH DRAWN ESSENTIAL OILS.

OL. AMYGD. ESSENT. ANG.

- ,, AMYGD. ,, (SINE ACID. PRUSSIC.)
- " ANETHI ANG.
- " CARUI ANG.
- " CARYOPH. ANG.
- " CINNAM. VER. ANG.
- " CUBEBÆ ANG.
- " COPAIBÆ ANG.
- " MYRISTICÆ ANG.
- " MENTH. PIP. MITCHAM RECT.
- " SANTAL FLAV. ANG.

C. LIMONIS (W. J. B. & CO.'S SPECIALITY).

20-23 ARTILLERY LANE, BISHOPSGATE, LONDON, E.

MONTSERRAT

(In Summer mix with cold water; in Winter, with water as hot as it can be taken.)

OVER ADVERTISED ALL THE WORLD!

Mitserrat Pure Lime Fruit Juice.

Mitserrat Limetta, or Pure Lime Juice ordial.

Metserrat Aromatic Lime Juice Cordial. Metserrat Clove Lime Juice Cordial.

Montserrat Jargonelle Lime Juice Cordial. Montserrat Raspberry Lime Juice Cordial. Montserrat Strawberry Lime Juice Cordial. Montserrat Quinine Lime Juice Cordial. Montserrat Sarsaparilla Lime Juice Cordial.

10,000 GALLONS OF LIME JUICE IMPORTED ANNUALLY!

CHEMISTS SHOULD MAKE THIS A SPECIAL LINE.

Thiontserrat Lime Juice enterprise was established by the philanthropist Edmund Sturge to provide work for the liberated slaves.

CAUTION!

THE GREATEST CARE should be observed that "MONTSERRAT" LIME-FRUIT JUICE and CORDIALS only are supplied, as there are numerous rections sold under the name of Lime-Juice Cordial that are entirely artificial, or so charged with deleterious acid as to be injurious to health. The asignees call attention to the following letter:

Thereas the great popularity which has been attained by the Montserrat Lime Fruit Juice grown on the estates of the Montserrat Company in the st Indies, of which Evans. Sons & Company, Liverpool, are the Sole Consignees, has led unprincipled persons to endeavour to use the name of our famina connection with other and inferior Lime or Lemon Juice which they sell, I think it necessary to state that the whole of the raw Lime-Fruit Jule om the estates which were established by me, and are now carried on by the Montserrat Company, is, and has been for the last twelve years, cons ed to Evans. Sons & Co., of Liverpool. " (Signed) EDMUND STURGE." ondon, April, 1883.

EVANS, SONS & CO., LIVERPOOL, SOLE CONSIGNEES OF THE MONTS & RRAT CO. (Limited). SOLE CONSIGNEES OF THE H. SUGDEN EVANS & CO.

VANS, LESCHER & WEBB, London.

Montreal, Canada; and Boston, U.S.A.

N .- No Lime Juice can be Montserrat unless bearing the Trade Mark on Capsule as well as Label of each Bottle.



FOR ALL CLIMATES AND ALL PALATES.

The Strongest and most Delicately-flavoured Sauce, and the Cheapest. Usual 2s. size for 1s.

MADE ONLY SONS & CO. the Sole Consigners of the Montserrat Co. (Limited), STREET, 56 HANOVER LIVERPOOL.

EVANS, LESCHER & WEBB. London.

H. SUGDEN EVANS & CO., Montreal, Canada; and Boston, U.S.A.

TURNUE

Shape of Bottle.

POMADE, EXTRACT, OIL, ROSE & ORANGE FLOWER WATER, &c.

("Mont Blane"),

ROSEMARY, ROSE GERANIUM, NEROLI, SPIKE, &c.

MESSES CLAUDE RAYNAUD & CO. (Grasse), Depôt, 16 Rue de l'Echiquier, Paris, having imported the Lavender plant from Mitcham, and giving the cultivation of it their special attention, have succeeded in producing an Oil of Lavender which is considered equal to that of Mitcham, and are now prepared to offer it in 1 kilo. tins and upwards at 12s. per 1b. Our other Specialities are

EXTRACTS.—Every care is taken in manufacturing our Extracts to suit the English Market, and are superior in quality to any others. Specialities—JOCKEY CLUB, WHITE ROSE, ESS BOUQUET, WOOD VIOLET, &c.

Sole Agent: G. V. De Luca, 6-7 Long Lane, E.C.; Depôt: Newbery & Son, 1 King Edward St., E.C.

NEW YORK-Warehouse at 36 PLATT STREET.

Agent for London, Mr. ROBT. BRAND, 12 Old Jewry Chambers, IC. SPECIAL DISTILLATION OF

LAVENDER, ROSEMARY. FENNEL, ORIGANUM. SPIKE. RED SAMPLES SENT ON APPLICATION.

Elbe, a/d. Saxony, MANUFACTURER OF

(TWO PATENTS FOR DISCOVERIES).

SOLE PROPRIETOR OF THE PATENT FOR THE METHOD OF MAKING THE

OILS. CONCENTRA ESSEN KNOWN AS

HEINRICH HAENSEL'S PATENT ESSENTIAL OILS.

LEMON PATENT OIL OF All 30 times stronger, bulk for bulk, than the PATENT OIL OF ORANGE PEEL PATENT OIL OF ANGELICA, &c., &c., &c. ordinary essential oils.

The above Oils are completely soluble, and cause no cloudiness when mixed with ordinary spirits of wine.

HOPS). ESSENTIA LUPULI (ESSENCE OF

For use in Breweries in the place of Hops themselves; imparts a finer taste, and is much cheaper.

CONCENTRATED

Distilled, and easily soluble, for the preparation of all kinds of Liqueurs.

BRANDY. **ESSENCES** OF RUM. ARRAK.

Ether Sulphur unchangeable

Mal Il Gag

itrbe

Trac

p In Tra

Trac

Tra

HONOURABLE MENTION.

In rnational Food Exhibition, Agricultural Hall, London, October, 1880.

ESSENCE SOLUI JAMAIC

(Guaranteed Pure and Free from Capsicum).

Trade Price, 5s. per lb.; 12 lbs. and upwards, 4s. 6d.

High dapted for the manufacture of Transparent Aërated Waters, and for all Dietetic, Medicinal, and Pharmaceutical purposes.

Medical Opinions on AY'S Soluble Essence of Ginger.

"Sin arly free from resin."-The Lancet.

"It uld entirely supersede the officinal preparation of the tish Pharmacopoeia."—Medical Press.

Medical Opinions on HAY'S Ginger Champagne.

"An e lient and most agreeable beverage."—The Lancet. "Ma by Mr. HAY, of Hull, with his well-known Soluble Essenc Jamaica Ginger, takes rank as a pure, wholesome, stimuls g, and non-alcoholic beverage."—British Medical



HAY'S Ginger Ale.

"It pours out with as fine a 'head' as any glass of ale, and possesses all the fine aromatic flavour of the pure ginger, without any trace of the stickness which so often characterises inferior makes of ginger-beer. It is a beverage which is sure to win favour wherever introduced."—The Chemist and Druggist.

Medical and other Opinions on the Ginger Beer made from HAY'S Soluble Essence.

"An excellent effervescing drink."-The Lancet. "Preferable to some wines we have tasted under the name of champagne."—Medical Press.

"Clear and transparent, and very pleasing to the alate."—Medical Times and Gazette.
"Has the purest Jamaica Ginger aroma, and ought to

attain great popularity."-The Chemist and Druggist.

(Guaranteed Pure and Free from Capsicum).

This hence, which is an addition of Vanilla, Lemon, and other flavours to the above, is strongly recommended for the manuture of Ginger Beer, Wines, &c., to which it imparts with the Ginger a Peculiarly Fine Fruity Flavour and Aroma.

Trade Price, 5s. 6d. per lb.; 12 lbs. and upwards, 5s.

Specially adapted for the Manufacture of the FINEST

GINGER

This sence is strongly recommended for the manufacture of the finest Ginger Ale and Ginger Beer. It imparts, with the equie Ginger Aroma of the first-mentioned Essence, a peculiarly fine fruity flavour combined with the fullest amount of fragrance and pungency.

Trade Price, 5s. 6d. per lb.; 12 lbs. and upwards, 5s.

CONCENTRATED. HIGHLY

This Essence is a complete Bouquet of the finest Ginger, Lemon, and other flavours, in a highly concentrated state.

Gingr Beer and Ginger Ale made with this Essence will possess an amount of Aroma, Flavour, and Quality that have hitherto been without precedent, and that will be sure to command a large sale.

TE COST IN MANUFACTURE IS ABOUT ONE FARTHING PER DOZEN BOTTLES. Trade Price, 9s. per lb.; 12 lbs. and upwards, 8s. 6d.

SUPPLIES PUNGENCY, AROMA, COLOURING, AND FLAVOURING

This tract is strongly recommended for the manufacture of Ginger Ale, to which it imparts an unusually Fine Flavour and Great Brilliancy, at a cost of a little under 1d. per dozen bottles.

Trade Price, 4s. 6d. per lb.; 12 lbs. and upwards, 4s.

PREPARED BY

W. HAY, Manufacturing Chemist, BEVERLEY ROAD,

gents-Messrs. HEARON, SQUIRE & FRANCIS, Wholesale Druggists, 5 COLEMAN STREET, LONDON, E.C.

W. AY CAUTIONS THE TRADE against the use of those spurious so-called SOLUBLE ESSENCES with, besides having NO GINGER AROMA, are FLAVOURLESS, RANK, and DISAGREEABLE, and are little more than TINCTURES OF CAPSICUM.

SPECIAL NOTICE TO THE TRADE.

Messrs. RIDGE & CO. beg respectfully to announce that on and after this date, 1st October, 1883,

DR. RIDGE'S PATENT COOKED FOOI

FOR INFANTS AND INVALIDS

will be advanced in price, viz.:—The One Shilling Packts will be advanced to 198s. per gross, instead of 96s. er gross, as heretofore.

The discount upon £50 (fifty pounds) parcel (or upwals) will be subject to 5 per cent. discount, instead of 15 per cent. discount, as heretofore.

No discount whatever will be allowed upon parels under £50 in value.

Remittances with order in every case.

Cheques and Post Office Orders to be made payable to P. J. Rumney.

Cheques crossed London and Provincial Bank.

Postal Address—



By Anthority.

DR. RIDGE'S ROYAL FOOD MILLS

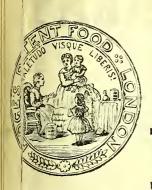
LONDON, N.,

ENGLAND.

Ridge's Food.

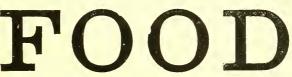


Dr Ridge's Food.



DR. RIDGE'S

PATENT (COOKED)





Ridge's Food.

FOR

D^r Ridge's Food.

NFANTS AND INVALIDS.

DR. RIDGE'S FOOD has maintained its supremacy notwithstating the many imitations in the market, and still enjoys a larger and readier salthan any other Food, the demand daily increasing. Superior quality, thoroughly coced, and supplied in a very compressed form.

N TINS ... {

RETAIL PRICE ... 1s. 0d. | WHOLESALE ... 9s. 0d. per doz., nett cash.

... 2s. 6d. | , ... 22s. 0d. | , ... |

... 22s. 0d. | , ... |

... 48s. 0d. | , ... |

... 96s. 0d. | , ... |

... 98s. 0d. | , ... |

.

Th above Prices apply also to "DR. RIDGE'S PREPARED OATMEAL" and "DIGESTIVE BISCUITS."

DR. RIDGE'S FOOD is also supplied in Packets (for Home Consumption ONLY):

The above quotations are subject to a discount of 5% on £50 order or upwards.

NO DISCOUNT WHATEVER ON ORDERS UNDER £50 IN VALUE.
REMITTANCES WITH ORDER IN EVERY CASE.

Of ques and Post Office Orders to be made payable to P. J. RUMNEY.

RIDGE & CO.'S

Poul Address-

ROYAL FOOD MILLS,

Royal Food Mills, London, N.

LONDON, N.,

ENGLAND.

NELSON EXTRACT OF

CHEAPEST IN THE WORLD .- HALF THE PRICE OF LIBIG

OUNCE PACKETS, 4d. EACH.

E. LAZENBY & SON (6 EDWARDS STREET, PORTMAN SQUARE.) Sole Proprietors of the Celebrated Receipts and Manufacturers of the Pickles, Sauces and Condiments so long and favourably distinguished by their name, beg to remind the public that their labels are affixed to the choicest description of goods only, that every article prepared by them is guaranteed as entirely unadulterated and may be obtained of Grocers, Italian Warehousemen and others.

HARVEY'S SAUCE.—CAUTION.—The admirers of this Celebrated Sauce are particularly requested to observe that each bottle bears the well-known label signed "ELIZABETH LAZENBY"; this label is protected by perpetual injunction in Chancery of the 9th July 1858 and without it none can be genuine.

18 TRINITY STREET, LONDON.

Elizabeth Lazenby

BARFF LIQUID MEAT KREOCHYLE AND VIRE.

To be obtained of Messrs. Barclay & Son, Farringdon Street, Messrs. Rouse & Co., Wigmore Street, Messrs. Burgoyne, Burbidges & Colem Street, Messrs. Newberry & Son, King Edward Street, of all principal Chemists, and of "THE KREOCHYLE COMPANY," BITEC ROAD, LEYTONSTONE, E.

Prices-Retail, 5s. per pint; 2s. 9d. per half pint; 1s. 6d. per quarter pint.

"RAMORNIE." LIEBIG'S EXTRACT OF ME

6/4 6/7 7/0 7/8 10 lbs. Carriage Free. Write for Detailed Price List to the Australian Meat Co., 9 & 11 Fenchurch Avenue, E.C.

SPECIAL NOTICE & CAUTION.

BRAND & CO.

The Original Manufacturers of Essence of Beef (green label under wrapper), and other Specialities for Invalids, have

REMOVED

From their SOLE ADDRESS, No. 11 LITTLE STANHOPE STREET, MAY-FAIR, W, and caution the trade to

BEWARE of IMITATIONS



PERFECT FOOD FOR INFANTS."

ESTLE'S MILK FOOD is prepared at Vevey, Switzerland, from the pure milk of Alpinefed (vs. the finest wheaten flour and sugar, combined in exact proportions to imitate closely the natural It is thoroughly cooked, and reduced to a fine powder, perfectly soluble in water, requisionly the simple addition of water to prepare it for use—in this respect having the advantage over all oer foods.

ESTLE'S MILK FOOD is highly recommended by the best medical authorities in all parts of the globe as a perfect diet. Nestle's is the original and genuine Milk Food or Powder. The extensive demand for this Food, its well-known superiority and universal recognition by the medical profession, has produced the inevitable imitations. The Trade and the Public are hereby cautioned. Nestle's Milk Food has stood the test of years. Take no other under any pretence whatever.

NESTLE'S MILK FOOD is put up in Tins, packed in lined cases when ordered specially for the Export Trade. Is highly concentrated, and in a TRADE MARK Registered perfectly dry state. Will keep good in any climate. r exportation the Food is a very desirable article, and is much sought after among people of

all pionalities in all parts of the globe. Its advantage as an article for export consists in

lform quality. Its purity. The simplicity of its preparation for use. Its freshness in warm climates, where cow's milk soon becomes tainted. Its uniform quality.

forer and Colonial Importers should obtain their supplies through any Wholesale Firm in Great Britain, or Shipping Agent, thus ensuring fresh stock and lowest prices.

LONDON DEPOT: SNOW 9 HILL, E.C.

SEVEN INJUNCTIONS have been granted during the past few months.



WOCE IS HEREBY GIVEN that in several actions instituted by Messrs. GOODALL, BACKHOUSE & CO., Leeds, Injunctions have been recently granted by Judges of the Chancery Division of the High Court of Judicure, restraining several persons from using several Counterfeits of Messrs. GOODALL, BACKHOUSE & Co.'s Labe and in particular against the use of the words "YORKSHIRE RELISH." The sole and exclusive right to the t of which words having been finally established by the above Firm, they will take immediate proceedings parties manufacturing or offering for sale Sauce under the above title, not being of the manufacture of Mess Goodall, Backhouse & Co. formation may be given to the undersigned,

J. SEYMOUR SALAMAN,

12 KING STREET, CHEAPSIDE, LONDON, Solicitor to the Trade Mark Protection Society.

AI

(PATENTED)

A Combination of FRY'S Pure COCOA EXTRACT with

& HANBURYS' CONCENTRATED

SONS, BRISTOL AND LONDON.

CONROY'S MALT



Conroy's Malt Coffee has received the following Certificates amongst my other

"Undoubtedly a nourishing and health producing article of diet." — Edward Davies, F.C.S., F.I.C., &c., Liverpool.
"Most beneficial in cases of atonic indigestion."—E. Adam, M.R.C.S., England.

"Genuine Coffee gives me indigesticn. Your Malt Coffee is entirely free from this objecti n.'—S. Whitaker, Waterfoot, near Manchester.

"Dyspeptics who could never take the ordi-pary coffee or date coffee can take the Malt Coffee, and with the most beneficial effects."-

Dr. Lloyd, Bangor.

"I have frequently recommended your Malt Coffee in cases of weak digestion, invariably with satisfactory results."—W.B.tl. Senior Surgeon to the Convalescent Institution, New Brighton.

"A most excellent combination,"—A. W. Postans, F.C.S., London.
"Very palatable and marvellously easy of digestion."—Society, October 21, 1882.

"It can in many cases be rilly to when ordinary coffee disagrees—Brt Medical Journal, July 29, 1882.

"Refreshing, and at the sam me no lill tious, spirit-infusing, yet absolity non-mittous, spirit-infusing, yet absolity non-mittous, and the sam me no lill tous, spirit-infusing, yet absolity non-mittous, and the sam me no lill tous, spirit-infusing, yet absolity non-mittous, and the sam me no lill tous, spirit-infusion, yet absolity non-mittous, yet absolity non-mit

29th Sept., 1882.
"Both pleasing to drink, and ds gre to digestion."—The Anti-Aduller on Ret October, 1882.

"The combination ought, the pre, to prove the health of those who come it

Globe. "Malt Coffee, the new mper Malt Coffee, the new mper May approach to what is required. P. malt approach to what is required. P. malt approach to what is required. its own way as beneficial as pure ffee, be especially strengthening and natious Morning Post.

liter Stre

NGR/

IT IS MADE IN THE SAME WAY AS ORDINARY COFIE.

Pamphlets containing Testimonials from Eminent Scientific, Medical and of Gentlemen of the highest position, may be had Free for Gratuitous Di ibuti

Each Tin is protected by an Excise Stamp der In cases of 56lbs. each, put up only in 1-lb. and \frac{1}{2}lb. tins. Regulations of the new Inland Revenue Bill of August 3, 1882. PREPARED ONLY AT THE

WORKS, STREET, LIVERFOON OTHER MALT COFFEE 34 FLEET

SOLE PROPRIETORS-

EVANS, SONS & CO., 56 Hanover Street, LIVERPOOL WEBB, 60 Bartholomew Close, LONDON E. The Street EVANS, LESCHER & QUOTATIONS ON APPLICATION.

PHILLIPS CO..

TEAS, COFFEES, AND MANUFACTURERS OF PURE, PLAIN, AND AN COCOAS AND CHOCOLATES,

8 King William Street, City, London, E.C. MIR

Warehouse and Show Rooms in adjacent premises, 13 and 14 ABCHURCH LANE, and at 10 and 1 GRA HOTEL BUILDINGS, CHARING CROSS.

The Agency for the Sale of PHILLIPS & CO.'S Teas and Coffees, Cocoas and Chocolates, will be found very profitable Them



ONLY FROM THE STEAM ANNATTO WORKS,

31 BEYENDEN STREET (late 24 Somerset Place), HOXTON, LONDON.—Establish 178

FIRST CLASS MEDAL, NEW ZEALAND, 1882.

SONS PHILLIPS COFFEE DANDELION

Castle Square, SWANSEA; 12 Arthur Street West, LONDON BRID E.

Be particular in noting London Address, as we have no connection with a Retail Firm of same name.

CIEMISTS' TEA AGENCY. WAI ER & DALRYMPLE'S

BROKEN-LEAF TEA, 1s. 8d. per lb.
MONEY SAVING TEA. ABSOLUTELY PURE.

Them leaf from some of the finest India and China Teas. Produces that in top, stronger, richer, and cheaper than most whole-leaf Teas. Agents at nted, where unrepresented, throughout the United Kingdom.

WAI ER & DALRYMPLE'S

INTERMEDIATE TEA, 2s. per lh.

EST the PRICE EVER SOLD. Great strength and a most useful

where ere is a large consumption. Recommended to all who wish to

EST in in Tea. Agents appointed, where unrepresented, throughout the Unite ingdom.

WAKER & DALRYMPLE'S TEAS.— ANTS APPOINTED, where unrepresented, throughout the United K. lom.

Prospectus and Samples Free on Application.

Prospectus and Samples Free on Application.

Ware 383, 154, 155, 159 and 160 WHITECHAPEL ROAD, and
BRADY STREET, LONDON.

P.O.O. able at head office. Bankers, the National Provincial Bank of England.

THEVELL-KNOWN "LONDON TEAS"

(LIMITED).

for Retail at 1/4 per lb. Sifting from Fine Tea The Lidon Whole-Leaf Tea 1/8 The L.don Broken Tea 1/8 The L.don Two-Shilling Tea 2/-The Ledon Two-Shilling Indian Tea,, 2/-The Lidon Assam Broken Tea AND OTHER FINER BLENDS.

Orders sall Sample Parcel. The Quality never deteriorates.

A. HORATIO JONES, Managing Director.

The Galt Tower Street Tea Co. (Limited), 39 Great Tower Street, London, E.C.

CANGRA VALLEY

ndia Tea Growers' Association,

NEW COVENTRY STREET.

LICESTER SQUARE, W.

PROSPECTUS.

The oct of the Planters who have formed this Association, is to est lish a business for the direct supply of Tea from the Plantatis of the Kangra Valley to the public.

So grea success has attended the efforts of the promoters of the A) ciation that it has become necessary that one of the Planters would reside in England to manage its affairs.

The dinctive feature of the business of this Association is hat the a is delivered to consumers in the original One Pound in-foil d parcels in which it is packed in the Valley, and it is guara sed to be absolutely pure.

The sociation hopes that it may, without presumption, safely remmend this Tea to the public, believing that it will

continue) give the greatest satisfaction.

Title An's Indian Mail, Feb. 28, 1883:—"** We can spesk hum act knowledge of the excellence of the Toas of the 'Kangra Tulley Inn Tea Growers' Association,' and as in advertising them we are also been gu those who take advantage of their enterprise, we append kir met, prospectus, which promises no more than they are well able to

These eas, retailing respectively at 4/, 3/, and 2/6, can be purchase in any quantity, either direct from the Store, 7 New oventr treet, or from Messrs. Barclay & Sons, 95 Farringdon Street, Ints to the Association.

Speci. Terms granted to all Chemists and Druggists, to whom t Teas, on account of their absolute purity, are particu, ly recommended.

SEVEN PRIZE MEDALS AWARDED.

YORKSHIRD

THE MOST DELICIOUS SAUCE IN THE WORLD.

This cheap and excellent Sauce makes the plainest viands palatable, and the daintiest dishes nore delicious. To Chops and Steaks, Fish, &c., it is incomparable. Sold hy Grocers, Oilmen, Chemists, &c., in Bottles, 6d., 1s., and 2s. each.

CAUTION .--On each Yorkshire Relish Label is a Willow Pattern Plate and name, GOODALL, BACKHOUSE & Co. No other is genuine.



THE BEST IN THE WORLD.

Makes delicious Puddings without Eggs, Pastry without Butter, and beautiful light Bread without Yeast. In 1d. Fackets; 6d., 1s., 2s., and

The best, cheapest, and most agreeable tonic yet introduced. The best remedy known for Indigestion, Loss of Appet 12, General Dehility, &c. Restores delicate individuals to health and vigour. In Bottles, 12. $1\frac{1}{2}d$. and 2s. 3d. each.



For making delicious Custards without Eggs, in less time and at half the price. Unequalled for the purposes intended; will give the utmost satisfaction if the instructions given are implicitly followed. Sold in Boxes 6d. and 1s. each.



Makes Three Gallons of the Best Ginger Beer in the World for 3d Is a delicious and invigorating heverage, possessing valuable medicinal It is cooling in its nature, and a most wholesome beverage for both winter and summer. Sold in Packets, 3d. and 6d. each.

Is acknowledged by all to be the most convenient and economical preparation ever introduced, as, by its use, a most Rich and Delicions Blanc-mange may be produced in a few minutes at a trifling cost, and may be had of various flavours, i.e., Raspberry, Strawberry, Lemon, Almond, and Sold in Packets, 6d. and 1s. each.



Acknowledged to he the only real substitute for eggs yet discovered. action on Cakes, Puddings, &c., &c., resembles that of the egg in every particular, enriching them in colour and flavour, rendering them most wholesome and nutritions. One penny packet will go as far as four eggs; and one sixpenny tin as far as twenty-eight. In 1d. Packets; 6d. and 1s. Tins. SOLE MANUFACTURERS-

GOODALL, BACKHOUSE & CO., White Horse Street, Leeds. A Monthly Price List of Druggists' Sundries, Patent Medicines, &c., can be had post free on application.

EJ.

Hunyadí János

CAUTION—Circumstances which have come to the knowledge of Andreas Saxlehner, Buda Pest, Sole Proprietor of the H add Jan Epring, compel him to WARN the British Public against SPURIOUS IMITATIONS. To secure genuineness, purchasers should see that eve bottle h on the Label the name of "THE APOLLINARIS COMPANY (LIMITED), London."

MANUFACTURERS

FARROW & CO., Holbeach, Lincolnshie.

THE DUPLEX LEVER CAPSULE CO., LIMITED

PATENT "SPRING LOCK" CAPSULE STOPPIR.

Instantaneously self-locking. Saves 75 per cent. of time in stoppering. Can be put on and ken repeatedly. Is handsome, efficient, and cheap. Neither corkscrew, wire, wax, indiarubber, brok corl nor dirt. Is absolutely air and water tight.

For Chemical preparations, Citrates, and Salines, it is without an equal, being absolutely air-tigh and dearer than the present inefficient stoppers.

for prices and particulars apply at the chief offices:

5 COPTHALL BUILDINGS, LONDON,

LIPSCOMBE'S 44 Queen Victoria St Cit

and Temple Bar, London.

FILTER

THE LARGEST MANUFACTURERS IN THE WORD

These Filters are a perfect safeguard against Typhoid Fever, Cholera, and Blood Poisoning

TLLUSTRATED PRICE LIST FREE, WITH CAUTION, TO THOSE PURCHASING A WATER INTERIOR VERY LIBERAL TERMS TO THE TRADE.

M. A. CRAVEN & SON, WHOLESALE AND EXPORT CONFECTIONERS

Medicated Lozenges, Refined Liquorice, Jujubes, and every description of Confectionry,

IMPORTERS AND MANUFACTURERS OF LEMON, ORANGE, AND CITRON PEELS.

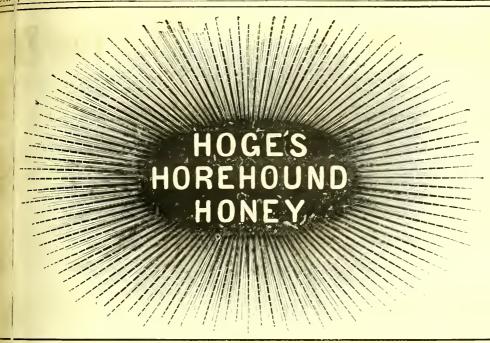
EBOR CONFECTIONERY WO

YORK.

Lozenges of all descriptions made from Customers' private formulæ (or ingredients), and stamp with any name or device.

Specialities—Cough, Peppermint, Rose, Musk, Bouquet, Cachou, and all kinds of Medicated Longer ESTABLISHED 1843.

PRICE LIST ON APPLICATION.



consider your Horehound Honey the most wonderful remedy I have ever tried, possessing propers which are nothing short of marvellous for cure of sore throat and coughs.

"MARIE RÔZE."

"Your Honey is delicious.—Yours truly, ELLEN TERRY."

WAT IT IS. An uncompounded product of Nature secreted in the petals of hore-hound blossoms, and gathered by the honey bee.

Nthe oft and equable climate of Southern California the mountain slopes, as they descend towards the Pac's Ocean, are often found to be one perpetual carpet of Horehound Flowers from spring until animal. This plant blooms after nearly everything else has faded. It stands excessive droughts, and ofusion of flowers almost unequalled in the vegetable kingdom, which are reservoirs that yield has not wonderful remedy. These miniature laboratories stamp with faultless certainty this Horehound liney in a colour and flavour peculiar to itself, and can be as easily distinguished as heather and clover have of the colour and flavour peculiar to itself, and can be as easily distinguished as heather and clover have of the colour and flavour peculiar to itself, and can be as easily distinguished as heather and clover have of the colour and flavour peculiar to itself, and can be as easily distinguished as heather and clover have of the colour and flavour peculiar to itself, and can be as easily distinguished as heather and clover have of the colour and flavour peculiar to itself, and can be as easily distinguished as heather and clover have of the colour and flavour peculiar to itself, and can be as easily distinguished as heather and clover have of the colour and flavour peculiar to itself, and can be as easily distinguished as heather and clover have of the colour and flavour peculiar to itself, and can be as easily distinguished as heather and clover have of the colour and flavour peculiar to itself, and can be as easily distinguished as heather and clover have of the colour and flavour peculiar to itself, and can be as easily distinguished as heather and clover have of the colour and flavour peculiar to itself, and can be as easily distinguished as heather and clover have of the colour and flavour peculiar to itself, and can be as easily distinguished as heather and clover have of the colour and flavour peculiar to itself, and can be as easily distinguished as heather and clover have of the colour and flavour peculiar to

If you are not satisfied with it after working it, we will refund price paid us on its return to us.

Intereging Descriptive Pamphlets, profusely illustrated, showing the Method of Reping Bees in California, also Hand Bills, supplied to customers gratis.

PUT UP IN 1s. 12D. BOTTLES.

V.M. HOGE & CO., 64 KING WILLIAM ST.,

LONDON, E.C.

in ENGLISH, AMERICAN, FRENCH, and SWISS HONEY, in 1-lb., 2-lb., 7-lb., 14-lb., and 28-lb. jars or tins, and In original casks. Also dealers in BEESWAX.

SILICATED CARBON REGD. SANITARY ASCENSION F

First and Highest Award at the International Medical & Sanitary Exhibition, South Kenegton,

An Ascension Filter, all parts of which are accessible for cleansing, and in which the Silicated Carbon can be renewed by the purchaser when required.

The water is trapped of the grosser impurities before reaching the Silicated Carbon, through which it passes upwards in the direction shown by the arrows.



By giving a half turn the iter v is released and the whole the terior of the Filter is then ac ssible cleansing.

The Silicated Carbon can I rene as often as necessar

PRICE COMPLETE:

No. A, 1 gallon

No. B, 2 gallons

No. C, 4 gallons

DOMESTIC

Made in cream-coloured Stoneware, fitted with the Silicated Carbon Media, complete with Cover and Silver-plated Tap.

All sizes of this pattern can now be had with Ice Compartment, which renders this Filter the most perfect of Refrigerators.



FILTER, NO. 27

PRICES.

With I

mparti

178.

254.

36s.

608.

10s. 6d. No. O, capacity 1 gallon

No. A. 14s. 6d.

No. B. 21s. 0d.

No. C. 32s. 0d.

42s. 0d. No. D,

52s. 0d. No. E,

70s. 0d. No. F,

SUPPLY MAIN

SPECIALLY ADAPTED FOR Mansions, Schools, Hospitals, Public Institutions, Breweries, Distilleries, Soda Water Manufactories.

Dye Works. And all other Establishments where large quantities of

PURE WATER

Are required.

The ordinary Sizes kept in Stock are as follows: A, f-inch pipe .. B, 1-inch pipe

C, 11-inch pipe .. D, 2-inch pipe ...





This Filter is extremely simple in c struct and can be either connected with Dister attached to the Main Service Pipe. | requ no attention beyond an occasional ening the Cleansing Tap, and will delive a sup of purified water at a rate of 5 to 1, gallons per hour, according to ise.

Special Contracts enter in for Large Works, Institution &c., &c.,

SUPPLY OF A BUILDING BEFOR US PURIFYING THE WHOLE OF THE WATER Ensuring Rapid and Perfect Filtration, at either High or Low Pressure.

SILICATED CARBON FILTER CO., CHURCH ROAD, BATTERSEA, LONDON

SLICATED CARBON FILTERS.

FILTERS FOR TRAVELLERS.

By Ins of these Filters re and perfactly w lesome water may be ink from any nond stream by imply mersing the Filterth in and drawing the ter through the tuber suction.



used as a Syphon by placing it in a vessel of water, then drawing the water by the mouth, and allowing the flexible tube to hang over the side below the Filter. When once set in operation

	Гасп	No. 20. their action is	CO	ш.
	able F	rs may be tinuous.		
	APock	Filter, 21 inches diameter, in porcelain, with glass	8.	
		piece, in decorated metal box	2	
	B-Ditte	inches diameter, in best stoneware	5	,
1	Ditte	" with silver-plated tap	7	(
	CEmiş	t's, 5 inches diameter, with silver-plated tap	12	(
		Filter, for carrying over shoulder, as supplied to the		
1	FO:	in Abyssinia and Zululand, and to the Ashantee		٠,
	an,	gyptian Expeditions	3	1
	HDitte	ckel-plated, designed by Major Fraser, R.E., and specially		
	rec	nended by the Horse Guards for Officers' kits	5	(

TABLE FILTER, NO. 24.

Made of stout glass, in 1, 2, and 3 pint sizes, the filtering medium being securely fitted into the bell-funnel, so that it is not liable to become loose, or to allow unfiltered water



to pass. This Filter is peculiarly suited for the Bedroom and for Table use, affording a ready and simple means of obtaining at any time freshly-purified water.

PRICES.

O, 2s. 6d.; A, 4s.; B, 5s. 6d. Engraved Vine Pattern-O, 3s. 6d.; A, 5s. 6d.; B, 7s. 6d.

POROUS TERRA COTTA FILTER, NO. 29.

Shape of this Filter as Fig. No. 24. O, 2s. 6d.; A, 4s.; B, 5s. 6d.



DINING-ROOM FILTER,

No. 22.

MADE IN MARBLED CHINA. Size A holds about two gallons; size B. five gallons.

PRICES.									
A	35s.								
в	80s.								
	ent 42s.								
(New Patent.)									
	ent 100s.								

The large size (B) is specially adapted for Hotels, Refreshment Rooms, Luncheon Bars, &c.

REFRIGERATOR FILTER. NO. 25.

Made in Porous Terra-Cotta Ware,

Which acts with remarkable power as a cooler, and renders this Filter invaluable. especially in Tropical Climates,

AFFORDING A COOL DRAUGHT OF PURE WATER.

Price, with Silver-plated Tap .. Ditto, ditto, with Ice Compartment .. Capacity Two Gallons.

Specially adapted for Tropical Climates.

for Table

and

Domestic

Use.

PRICES:

No. 37.

1 Gal., 18/- ea.

., 26/-38/-



CATED CARBON (Regd.) ASCENSION

The most efficient known Filter



1 Pint, 2/6 es.

4/-

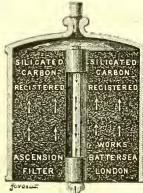
The Water passes npwards through the Silicated Carbon in the direction shown by the Arrows in the

Drawings.



The inner blocks being movable. by attaching an indiarubber tube they can be converted into Pocket

or Travelling Filters.



SECTION OF NO. 38.

WRITE FOR FULL LISTS TO THE

NO. 37.

BIL ATED CARBON FILTER CO., CHURCH ROAD, BATTERSEA, LONDON.

FOR JAUNDICE AND ALL LIVER COMPLAINTS

Biliousness, Indigestion, Weakness, Sick Headache, Loss of Appetite, lerve and Dyspeptic Affections, General Debility, Spasms, &c.

It quickly cures the above complaints of however long standing. PURIFIES AND CLEANSES THE BLOO, and to the system a healthy tone. NO CHANGE OF DIET IS REQUIRED. Those with weak constitutions matake it

entire confidence, it being adapted to all ages of either sex.

Sold in Bottles 2s. 9d. each. In all Countries this Medicine is invaluable, but more so in the Tropics, India, and all Hot Climates, and we particarly ca

attention of Shippers and our friends in the Colonies and Abroad to it. For Terms apply to the Proprietors-TOMLINSON & HAYWARD, Lincoln, Fglan

Manufacturers of the "Glycerine Dip" for Sheep, "Fly Powder," "Butter Powder," "Castor Oil Sheep Ointments," the Original Luddington Oils for Horses, Sheep, and Cattle, &c.

PRINTED MATTER AND TERMS SENT ON APPLICATION.

COOPER'S

Is soluble in Cold Water, and should be used in preference to any other Dip,

FOR TICKS, FLY, SCAB, AND FOR ALL OTHER SHEEP DIPPING PURPOSES.

This Dip has been in use for Forty Years, and has never been equalled by any other; it is of uniform strength, does not stain the wool, is suitable for all climates, and is equally good as a Summer or Winter Dip. It is especially recommended for Dipping Lambs, and as a certain Cure for Scab.

It supersedes all Carbolic and other Liquid Dips, being so much more reliable and lasting in its effects.

Counter Bills and Directions in English, Spanish, Dutch, &c., may be had free on application.

COOPER'S FLY POWI

For Preventing the Fly Striking Sheep & Lambs, Destroying the Maggot, &c.

In 1-lb. Packets, to Retail at 6d.; and 2½-lb. perforated Canisters, to Retail at 1s. 4d.

This Powder may also be had labelled with the Retailer's own Name and Address, provided not less than one gross packets or 6 dozen canisters be taken at once.

SPECIALLY LOW QUOTATIONS FOR QUANTITIES IN BULK. Samples on application.

Terms and further particulars may be had of the Proprietor,

WILLIAM COOPER, M.R.C.V.S., Chemical Works, Berkhamsted, Herts.

EDWIN HELLIAR. MANUFACTURING CHMI YEOVIL.

Beg to call the attention of the trade to the following st alities, will be found worthy of a place in the stocks of all Chists, s favour of an order, either direct or through the leading adon will much oblige.

London Wholesale Agents:—Hovenden & Sons, BA AY & SANGER & SON, W. EDWARDS & SON. Exeter:—EVAN ADD &

USUAL TERMS.



VESCO

(Registered) will 7ESICO SUDORIFIC blemish, but will, quicker than any ver re relieve and eure Splint, Spavin, Ringbone, Side ne, College Hock, Curb, Windgall, and strengthen the leg of H Also for Tumours in Cattle. Price, 2/6 size / per 5/size 48/ per doz., with usual discount. PRCHETC

C. W. GREGORY, V.S., BRISOL.

Wholesale Agents: - London - BARCLAY & SON EDW-& Son, SANGER & Sons; Liverpool-HOMI Edinburgh—RAIMES & Co.; Dublin—Bo WIN; Cork-W. & H. M. GOULDING.

SPRATTS PATENT **MEDICINES**

TASTELESS APERIENT BISCUIT

The Field, 28th January, 1882, says:—"The satisfactory results we obtained leave no doubt in our mind as to the lue invention."

(PATENT)

CURES ALL KINDS OF CUTS, BRUISES, AND WOUNDS IN MAN AND ANIMALS.

"SPRATTS PATENT," Bermondsey, S.E., or order through your Wholesale Wholesale Agents for the Soap and Dog Medicines:—Barclay & Sons; Sanger & Sons; Sutton & Co.; F. Newbery & ns; I & Co.; R. Hovenden & Sons, London; Raimes & Co., Edinburgh, York, and Liverpool; Ravensdale Mill Co., Dublin; 1 olley, & Co., Manchester; Taylor, Gibson & Co., Newcastle-on-Tyne; Goodall, Backhouse & Co., Leeds; and of all Whole Ho.

MEDICINES. AND SHEEP CATTLE.

BY ROYAL APPOINTMENT.

A MA ITY THE QUE DAY, SON INVENTORS AND SOLE PROPRIETORS OF

A.H. THE PRINCE OA

By Special Warrant Dated 10th Fehruary, 1866.

For all Disorders in Horses, Cattle, Calves, Sheep, and Lambs.

Patrol of or 50 years by Royalty, and the principal Stock Breeders, Horse Proprietors, and Agriculturists of the British Empire.

No. 2 MEDICINE CHEST contains the following matchless remedies:-

"CHEMICAL EXTRACT," for all External Injuries, and Ewes Lambing.

"GASEOUS FLUID," for Colic, Scour, or Diarrhea, and Debility.

"RED DRENCH," for Cleansing Cows and Ewes, and for Inflammation.

"RED PASTE BALLS," for Mares after Foaling, and Conditioning Horses.

"BRONCHOLINE," for Husk or Hoose in Sheep, Lambs, and Calves.

"GASEODYNE," for Heaving and Paining, "CARMINATIVE CHALK," &c.

Pine o Chest, with Guide to Farriery, £2 16s. 6d. No. 1 Complete Medicine Chest, in Polished Case, £6 6s.
Horsekeeper's Chest, No. 4, £2 17s. 6d.

CARRIAGE PAID TO ALL PARTS OF THE BRITISH ISLES.

Ad sby adapted for all ordinary ailments among Stock, and each preparation can be had separately. Full and easy directions enclosed.

lande Certificate of Merit" hy the National Agricultural Society of Victoria, Australia, 1871; President's Medal, Spalding, 1872; Silver Medal, Marster and Salford Show, 1874; Silver Medal, Preston, 1875; Silver Medal, Northamptonshire Agricultural Society, Stamford, 1875; In Med Drewe, 1875; Special Prize, National Agricultural Society of Victoria, Australia, 1875; Medal, Chester, 1876; Silver Medal, South Marster, 1877; Silver Medal, Newsstele-on-Tyne, 1877; Silver Medal, Mutsford, 1878; Medal, North Berwick, 1878; Medal, Wallingborough, 1879; Medal, Bentham, 1880; Medal, Melbourne Exhibition, 1880; In Medal ourbridge, 1881; Silver Medal, Doncaster, 1882; Gold Medal, Christchurch, New Zealand, 1882; and Silver Medal, Canterhury, 1882.

CAUTION .- Beware of Imitations, and see that the name of DAY, SON & HEWITT is on all Bottles and Packets.

lepare only by DAY, SON & HEWITT, 22 DORSET STREET, BAKER STREET, LONDON, W. umid Wessrs. Burgoyne, Burbidges & Co., Barclay & Sons, W. Edwards, Newhery & Sons, Sanger & Sons, Hovenden & Sons, and all Wholesale Orgists, in London: Hood & Co., Melbourne: Kempthorne, Prosser & Co., Donedin and Auckland: Fairthorne & Co., Launceston.

JAMES' LIEUT. BLISTER

(Manufactured by R. J. JAMES, the Grandson of the Inventor).

CELEBRATED BLISTER IS NOW OFFERED TO THE TRADE AT T z. pots from 14/- per doz. to 12/6 per doz. 1 lb. pots from £1 3 0 , 1 , , , , , , , THE FOLLOWING REDUCED PRICES :-1 oz. pots from £.4 4 0 per doz. to 7 16 0 7 10 33 2 8 0 2 4 0

Observe the Trade Mark.—"A Horse's Head on the top of each Pot, and the signature, R. J. James."

EUTLER & CRISPE, 4 Cheapside; NEWBERY, 37 Newgate Street; Maw, Son & Thompson, 11 Aldersgate Street; HAYES & Co., 🏬; comic, Cork; Foggitt, Thirsk; and Sang & Barker, Edinhurgh. Agents for the Colonies required. Apply, with reference, to R. J. JAMES, South Retford, Notts.

JAME: JAMES.—Lord Romiley, the Master of the Rolls, on February 23, 1872, declared "that I had an equal right with other members of unable and sell this Blister."—R. J. JAMES.

STABLISHED 1833. MRSB.—LIEUT, JAMES'S BLISTER.



CAUTION.

The annexed Label is at the of every Pot of the ORIGINAL and only GENUINE BLISTER.

The Messrs. Barclay & Sons, 95 Farringdon Street, London, and Messrs. Raimes & Co., Edinburgh, Liverpool, and York, are now and have heen Agents 45 years.

COLONIL AGENTS :- MELBOURNE and WELLINGTON: Felton, invale A.; Sydney, Brisane, and Lauxceston: Elliott Bros. & Co.; Dinn an UCKLAND: Kempthorne, Prosser & Co.; CALCUTTA: Smith,

H. JAES, Bole Manufacturer, STANFORD, FARINGDON, BERKS. diwrite; "Bell's Life" 49 years. Beware of Spurious Imitations.

FOSTER'S PEARL-COATED

Retail, 2d., 6d., 1s., and 2s. per box.

These Pills have found great favour wherever introduced, being a successful remedy for this troublesome complaint, the price, 2d., placing them within reach of the poorest keeper of Fowls, supplying a want long in demand, the high prices usually charged precluding all but the well-to-do Fancier.

An Agent wanted in every Town. Sample dozen of the 2d, size, post-free, 1s, 6d.

Agents' addresses periodically advertised in the Poultry Papers, thus

bringing them directly before the notice of consumers.

Wholcsale Agents: London: W. Edwards & Son, 157 Queen Victoria St., E.C.; Wyleys & Co., 223 Upper Thames St., and Coventry; Southall Brothers & Barclay, Birmingham; Whitehead, Hulbrook & Co. (successors to W. Mather), Manchester.

PROPRIETOR:

F. F. FOSTER, Navigation Street, BIRMINGHAM.



ABIBOURIS! Warranted Healthy, Wholesale

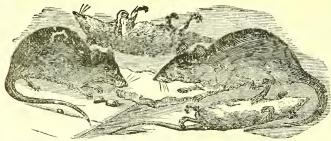
and for Exportation, Direct from Marshes.

FITCH & NOTTINGHAM, Leech Breeders,

MARSEILLES, & 55 PENTONVILL ROAD, LONDON, N.

TRADE MARK RECISTERED. All Orders by Post receive immediate attention.

BATTLE'S DRMIN



Has an immense Sale, and wherever introduced never is to faction.—Mice appear attracted to it as by magic, eat it rely, to and die on the spot. Rats usually die in their runs.—Fai too Vermin may be cleared at once, either from Stacks, Has

Vermin may be cleared at once, either from Stacks, Hos, or TESTIM ONIALIS.—Thousands might i put From Mr. THOMAS COLTON, Agent for Selby.—A finl of chased a Packet of your Vermin Killer last night, do ing it to-day he called in to say that he had found fifteen dead i, and used part of a packet.—From Mr. EDWARD STURNY, Finct I duly received by post the Packet of your VERMIN KII as as represented in your advertisement. It speedily destro all imy grainary. I enclose 2s. for two more Packets.—Le Now grainary. I enclose 2s. for two more Packets.—Le Nor effectual in clearing my premises of LIARGE QUANTITS OF THOMAS S. CROSLAND.—Mr. Stead.

THOMAS S. CROSLAND.—Mr. Stead.

Sold in Packets, 3d., 6d., and 18 ach

Always gives satisfation

Sold in Packets, 3d., 6d., and 1s act Soll in Packets, 3d., 6d., and 1s act Soll Proprietor:

Mr. J. R. BATTLE, Chemist, Lincol En No Chemist or Storekeeper should be without apply

"HUNTER'S" INFAL VERWIN DESTR Y

IS THE MOST DEADLY.

Cannot be excelled.

Thirty-seven years' reputation.

SUPPLIED ON THE BEST TE

BY ALL THE WHOLESALE DU

Manufactory-DEWSBURY. ENGLAND

For destroying Rats, Cockroaches, &c. 3d., 6d., and 1s. Glass Jars; 2s. 6d. Tins. Warranted to keep for Export.

(POWDER).

DESTROYING FOR MICE. 1d., 3d., 6d., and 1s. Packets.

STEINER'S PRIME DALMATIAN INSECT POWDER.

The most energetic Insecticide. Kills Bugs, Fleas, and all offensive Insects.

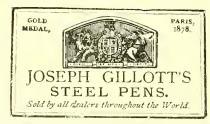
Quite harmless to Domestic Animals. ld., 3d., 6d., and ls. Tins.

Also in 7-lb. Tins and in Kegs of 120 lbs., as imported.

T. JAMES' SUPERIOR PHOSPHOR PASTE. 1d., 3d., 6d., and 1s. Glass Jars.

May be obtained through all the Wholesale Houses, OR DIRECT FROM

THE WORKS, HENRY ST., LIMEHOUSE, LONDON.



INDEX TO ADVERTISEMENTS, See pp. 41 and 42.

POISON.

"Among many preparations for killing Rats I have never and answer so well as that I obtained from

Messrs. SANFORD & SON, of Sandy, Before From One Dressing I found 120 dead rate."-G. WINTER ark

The Poison can be obtained in Boxes, at 1s.; s. 2
Postage, and upwards. A Liberal Discount A Wholesale of Messrs. BARCLAY & SON, Farr dor

100 Rats destroyed for a Shilling L

BARBER'S PHOSPHOR IAS

WRAPPED NEATLY FOR THE COUNTER.

Handsome attractive Posters supplied; if conspicuously plac will constant sale.



3d., 6d., 1s., 2s. 6d., and 5s. Tins.

BARBER'S VERMIN KIL

SOLD THROUGHOUT THE WORLD.

In packets, 3d., 6d., 11s. Kills Mice upon the spot.

Be not deceived with worthless imitations. Observe e 1

CORNS! CORNS!! BUNIONS! Are always Cured by the use of

BARBER'S CORN BUNION AND

They never fail in giving relief in 10 minutes. Testimonic content of each Box. Will well repay anyone to introduce Ss. 6d. and 21s. per dozen, remittance with order, free ps.

ESTABLISH)] WORKS, SALISBURY.

Special Quotations to Shippers. Supplied by all the Loudon Wijsal

The new Disinfectant, is better and cheaper that an

NO STI NO SMELL. POWERFULLY OXIDIZIN

Sole 1 keh Excellent terms to the trade.

A. J. SHILTON, 40 Paradise St., Birr ng

Whosale and Export Druggists and Manufacturing Chemists, 82 CITY ROAD, LONDON.

GABRIEL & TROKE'S REGISTERED CAPSULED HORSE BALLS,

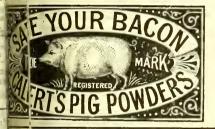


Manufactured solely by GABRIEL & TROKE, WHOLESALE DRUGGISTS, 82 CITY ROAD, LONDON.

MANUFACTURERS OF ALL VETERINARY PREPARATIONS, EVERY KIND OF VETERINARY INSTRUMENTS AND SUNDRIES.

8AMPLES AND SPECIAL QUOTATIONS FOR LARGE BUYERS

Olls are prescribed These Capsuled Balls are most convenient and sade and well adapted for export, keeping good in any climate. They are put up in Boxes of 1 dozen each. Capsuled Balls of the most approved formulæ on hand, and private recipes faithfully and accurately dispensed. Shipping orders promptly and earchilly excented, and at lowest market price. Jists of a very extensive character in the most handy referable style on application.



Oct. 5, 1883.

"FOR PIGS IN HEALTH, FOR PIGS IN DISEASE."

CALVERT'S PIG POWDERS

Are a certain remedy for all ailments to which Swine are subject (especially Swine Fever).

They allow a fair margin of profit to the retailer. Wholesale and Export of Patent Medicine Houses, or Proprietor—

J. H. CALVERT, 57 Geneva Road, BRIXTON, LONDON, S.W. Beware of Spurious Imitations. Each Powder protected by the Registered Trade Mark.

PONG'S BEDFORDSHIRE

IF POWDERS.

(REGISTERED).

Clds, and all Pig Diseases.

and tised throughout the country, and exhibited at the a large demand.

The country is causing a large demand.

The country is a large demand.

The country is a large demand.

GREULTURAL CHEMISTS

siggleswade Bedfordshire.

BOURNE & TAYLOR, &c.

Price 8/ per gross, packed in 1-gross and 1-gross boxes,



LONDON WHOLESALE AGENTS, MAY, ROBERTS & Co., 9 CLERKEN WELL RD

MIONAL LIFE ASSURANCE SOCIETY,

For Mutual Assurance.

KNG WILLIAM STREET, LONDON, E.C. ESTABLISHED 1830.

EDICAL OFFICERS.—Herbert Davies, M.D; J. A. Kingdon, F.R.C.S.; John Scott, M.D.

Modrate Premiums. Large Profits. Undoubted Security.

Mary a Naval Officers assured at special fixed rates, including all risk of scrvice at home and abroad.

CLAIMS PAID 30 DAYS AFTER ADMISSION.

gents wanted in Districts at present unrepresented.

HENRY JOHN PUCKLE, SECRETARY.

"COUNTY CIGARETTI.

BEYNON & STOCKEN

10 GRACECHURCH STREET, LONDON.

GIBSON'S

JUJUBES. DELECTABLE **VOICE** JUJUBES. ANDGLYCERINE PATIL

Pnt up in 4-lb. Decorated Tins with Glass Lids, TINS FREE, are now being inquired for by buyers from all parts of the world, hey ar not surpassed in quality by any maker, and give entire satisfaction.

MEDICATED HIGH-CLASS LOZENGES, Sent out in 2-lb. or 4lb. Bottles, Bottles Free; or in Tins, from 10 lb. upwards.

LIME JUICE TABLETS. PURE MALT TAILE

DROPS, AND BEST QUALITY BOILED SUGARS OF EVERY IND

GIBSON'S ORIGINAL CHLORODYNE LOZENGES. PENNY SUGAR WORM CAKES, suitable for either children or adults. Have an amens

keep in any climate, and please everybody. Manufactured by ROBERT GIBSON, Carlton Works, Hulme, Manchester, and 1 Australian Avenu Lor

Price Lists sent on application. Our Goods can be bought through any Wholesale or Export House in London. Indents should be marke Gibson



EFFERVESCING KING'S

Is the BEST PREPARATION ever introduced for the use of EMIGRANTS, TRACLLER AND INHABITANTS OF WARM OR TROPICAL CLIMATES.

This Citrate has been patronised by Royalty, by Her Majesty's Diplo atic A broad, and was awarded a Prize Medal at the Exhibition of 851.

Abroad, and was awarded a Prize Medal at the Exhibition of 851.

NUMBERS of the MOST ENINENT PHYSICIANS AND SURGEONS in London an crough kingdom use KING'S MAGNESIA for THEMSILVES and FAMILIES, and have ren certestifying that it is THE BEST AND MOST AGREEABLE APERIENT EVER INTROLOED, as in ALL CASES OF SICKNESS, HEADACHE, LASSITUDE, ACIDITY or IRRIT. LITY STOMACH, CONSTIPATION, &c., &c., it can be used with the GREATEST SAFETY and SENTED ALL CASES OF SICKNESS, HEADACHE, LASSITUDE, ACIDITY or IRRIT. LITY STOMACH, CONSTIPATION, &c., &c., it can be used with the GREATEST SAFETY and SENTED AS A COOLING DRAUGHT in ALL cases of FEVER it has NO EQUAL.

TESTIMONIALS have also been received from CAPTAINS OF VESSEUS AND OTHER who has voyages to the BRAZILS and other TROPICAL PARTS, and bave ESCAPED THE YELL (AND FEVERS, while DAILY EXPOSED to the INFECTION; and attribute their EXEMPT! (whe have succumbed) to the PREVENTIVE effects of KING'S EFFERVESCENT C MAGNESIA; and they RECOMMEND that the Citrate should be taken by EYE UNISHING TO VISIT OR RESIDE IN SAFETY in TROPICAL or FEVER-PREVALENT CLUTES.

A smell teaspoonful of the Citrate in a tumbler of cold water makes an AGREE/LEC CO EFFERVESCING BEVERAGE.

Sold only in Glass-stoppered Bottles by Chemists and Druggists everywhere, and by testing to the second of the citrate of the cold only in Glass-stoppered Bottles by Chemists and Druggists everywhere, and by testing to the citrate of the citrate

Sold only in Glass-stoppered Bottles by Chemists and Druggists everywhere, and by t Sole M. turers and Proprietors-

BATES & CO., 1 REGENT SQUARE, LONDON, W.C., EGL/
Be sure to get KING'S EFFERVE-SENT CITRATE OF MAGNESIA, which
entire satisfaction.

MUSTARD.

Genuine Qualities

Are made from the finest mustard seeds only. Their compounds, as manufactured for upwards of a century, are guaranteed free from all ingredients imparting spurious heat, and are therefore equally suitable for both table and medical purposes.

6 BROKEN WHARF, UPPER THAMES STREET, LONDON.

CCO SOLUBLE PURE

Is the only guaranteed Pure Soluble Cocoa, better and other Cocoa, Cocoa Extract, or any Chocolate.

The British Medical Journal, March 27, 1869, says:

Cocoa is admirable. In flavour it is perfect, and it is pure, we pered, and rich in alkaloid," &c., &c. See also the Lancet c. Sold (full weight) in 1.lb., ½-lb., and ½-lb. Tins, at 41, 21, and, Sample Tins, sufficient for a family, free of charge, three or Chemist, or from

THE CHIEF PROPERTY.

THE CHIEF DEPOT, 6 & 7 COLEMAN STREET, L. DON,

AGEN

Trade Mark, "FATHER TIME", Regis ed.

HENRY ROUS'S Packet and Lose T

Agents appointed where unrepresented throughout the lited Ki Samples and Prospectus post free. Bankers, the Nat al Pro Bank of England.—Warehouses, 376 to 378 Edgware Road, ndon,

We are now presenting this Preparation to the notice of the Medical Profession in Gre Britain, with the belief that, upon a proper examination and test, they will find its virts unequalled by any similar combination, and it will warrant their approval and endesement.

e high favour it has met with in all the countries where it has been presented, has prompted us to intro ce it in this country, and we believe Physicians will not be slow in responding to our efforts in its ir oduction.

PERMANENCY as an EMULSION, remaining indefinitely without separation or change; its PALTABLENESS, the disagreeable properties of the oil being so entirely disguised that the most delice stomach can take and retain it; its perfect HOMOGENEOUSNESS, and the excellent results atten ig its use in all of the conditions for which its unexcelled components are useful, give it an enviae reputation, and the universal sanction of the Medical Profession.

trust all Chemists will procure a small quantity of the Emulsion, or at least fill all orders they may reive for it. We herewith append the opinions of some of the prominent Physicians of London, which certainly a guarantee of its especial virtues.

he British Medical Journal writes, July 7, 1883 :--

It is palatable, and we have no doubt that many patients about reprenance to ordinary Cod Liver Oil would take it without

London: 32 Keppel Street, Russell Square.

DEAR.1,—While practising in Canada I prescribed Scott's Emulsion of d Liver Oil extensively, with excellent results.

Yours truly,

May 1 383.

W. F. CHAPPELL, M.B., M.R.C.S.E.

56 Mile End Road, E. DEAR R.— . . . Your Emulsion has really been of great smight little patient of mine who has suffered from bronchitis continually you bright you bright your bright was bright and the same of the same imally ill you kindly send me one quarter dozen per return, and I will sail P. or smount.

P.S. - id that children will take it very readily.

Londo April 27, 1883.

Yours faithfully. FREDK. W. WILES, M.R.C.S., L.S.A.

Junior Garrick Club, London, May 11, 1883. MY DEAR SIR,—I am only a visitor here in London, May II, 1883. To opportunity of using the sample of Scott's Emulsion you so kindly sent me, but I have regularly prescribed it in America (San Francisco), and I generally found that patients derived great benefit from its continued use, and it was always tolerated much better than the ordinary Collins (Silver).

Liver Oil. Yours faithfully F. W. Hood, M.D.

I have found "Scott's Emulsion with Hypophosphites" of great benefit in the treatment of phthisical and scrofulous diseases. It is extremely palatable, and does not upset the stomach, thus removing the great difficulty experienced in the administration of the plain oil.

D. P. KENNA, L. R.C.S.I.,

Dublin, April 5, 1883. Surgeon St. Vincent's Hospital.

DEAR SIR,—I have tried your "Scott's Emulsion" of Cod Liver Oil with Hypophosphites in a ease of rickets (very young child), totally adverse to taking any kind of medicine. His nurse tells me he takes Scott's Emulsion without any difficulty, and even pleasure (sic). I certainly think he has derived considerable advantage from it myself.

Yours truly, J. LACEY, M.R.C.S., L.S.A., L.M D. Med. Off. S.E. Dist, H.M. Post Office.

Pints Retails at 4/per dozen, 33/- net ...

Half Pints 18/6 net 2/6

KING EDWARD STREET,

NEWGATE ST., LONDON, E.C.

NEWBERY & SONS, SCOTT & BOWNE,

MANUFACTURING CHEMISTS.

> NEW YORK, U.S.A.

1662 LOIDDN: EPHULIS

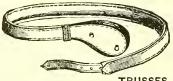
W. H. BAILEY & SON,

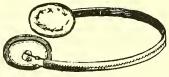
38 (late 16) OXFORD ST., LONDON,

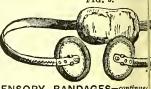
Six doors from Hanway Street.

ESTABLISHED A.D. 1833.

FIRST PRIZE (SILVER MEDAL) FOR TRUSSES AWARDED BY THE WORSHIPFUL COMPANY OF CUTLERS OF THE CITY OF LONDON, MA FIG. 5.







		-	-							_	_	_
				TRU	SSE	s.						
Circular Tr	usses	, single, a	s Fig.	1, ba	sil an	d cha	mois or	basil	and			
molesk	in							per	doz.	£1	1	0
Circular Tr	russes	, double,	basil a	and c	hamoi	is or b	asil and	mol	eskin			
								per	r doz.	1	14	0
12	22	22	with	exten-	đing t	oacks		-	99	2	14	0
Salmon &	Ody's	Expired	Paten	t, sin	gle, F	ig. 4	••		97	1	10	0
22		22	99	dou	ble, F	ig. 5	949		97	3		0
Moc-Main	Lever	, single	0-0	••	••	••	940	• •	each	0	8	0
Coles's Exp	,,	double	• •	• •	0-0	••	••	• •	22	0	13	б
Coles's Exp	pired	Patent, si	ngle	••	••	••	••		,,		6	0
**	70	,, d	ouble	• •			• •	• •	,,	0		0
Scrotal Tru	isses,	basil and	cham	ois or	mole			• •	,,	0	4	
>1	"	99		"		(louble	• •	"	0	7	0

No.	SU	SPENS	ORY B	BANDAGES-continue					
	Oxonian,	superior	quality,	bands	of	buff	jean,		

drawing-strings
7. Silk Bags, to button on, with tape under-straps.
8. , , , under-straps to button

SUSPENSORY BANDACES

No. SUSPENSORY	BAND	AGES.		
1. Cotton Bags and tape nnder-straps		••	per doz.	
Cotton Oxonian, with drawing-string	8	• •	22	0 10
3. Silk Bags and tape under-straps	••	••	,,,	1 1
4. Silk Oxonian, with drawing-strings		0-0	** .	0 18
5. Silk Oxonian Bags bound with elastic	••	••	per doz.	1 4

ELASTIC STOCKINGS, KNEE-CAPS, IC. ufactured expressly for and varranted to stand a state better than any others. Silk. Silk.

Export, and warranted to stand a hot climate better than any others						Silk.			Snper. Silk.		
in the Market	•			£	s.	\overline{d} .	£	3.	d.	£	J.
Stockings		0-0	per pair	0	10	0	0	15	0	0	6
Knee-caps		-	•• "	0	6	6	0	10	6	0	4
Calf-pieces		••	•• ,,	0	7	6	0	10	0	0	4
Socks		-	C-0 33	0	5	6	0	8	6	0	3
Wristbands			** 11	0	2	3		_		0	1
Knee Stockir	128	• •	** 11	0	16	0	1	5	0	0	9
Belts, to dray			each	0	16	в		-			-
							1				
4	c	43	TTT1.	1		-1.			177		

The above may be obtained direct from the Manufacturers, or from their Wholesale and Export Messrs. Barclay & Sons, 95 Farringdon Street.

COLUMNIST & HARDIN

PHŒNIX COLOUR WORKS, BRISTOL, so Petroleum and Benzoline Stores at Gloucestr

MANUFACTURERS OF

WHITE LEAD, PAINTS, AND COLOURS

Also VARNISHES of every Description

For Painters, Coachbuilders, and Japanners,

PAINTS IN TINS

TRADE
Ball denotes

All Colours in 1, 2, 4, 7, and 14 lbs.

SOFT SOAP, GREASES, LINSEED

packed in Casks and Tins of

MIXED FOR U

MARK.
Colour of Paint.

Joiotti Oi I ainte

All Colours in 1, 2, 4, 7, and 1

MEAL, AND CRUSHED LII

IMPORTERS OF

Petroleum, Benzoline, Gasoline, Turpentine, Olive, Colza, Cod, Castor, Seal, Whale, and Oils; Tallow, Pitch, Rosin, &c., &c. Sole Proprietors of the

CELEBRATED ELECTRIC LIGHT

The most beautiful and perfect Illuminator.

OIL REFINERS AND DRYSALTERS.

Caution and Warning.

has been said that imitation is the sincerest of flattery. However musuch flattery may be enjoyed by others, we much prefer the enjoyme of the fruits of our labour and expenditure.

The take this opportunity of expressing our most sincere thanks to the members of the trade who have given us information which has ended us to stop various piracies upon our goods, such as the infringement of the word "TABLETS" in connection with compressed drugs, also the various attempts to make use of the word "KEPLER," "HZELINE," "EDENIA," and other of our Registered Trade Names.

ne contempt with which imitators are regarded by all respectable members of the trade is of itself an important safeguard, which we fully appreciate.

fur Trade Marks and Labels are secured to us by registration all over the vorld, and we are determined on our own behalf, and are authorised on ehalf of the various firms we represent, to spare no expense in procuting to the fullest extent of the law every person who in any wajmitates our Labels or Trade Names.

'ne law is clear, and the ruling of the Bench unmistakable, in maing it a most serious offence to even take a single essential word or that cter, or any colourable imitation of such, from a registered label.—

(Vid decisions on "Lactopeptine" v. "Lactopepsine," and many others.)

he substitution of an imitation for a genuine article is held by the couls of Law to be an actionable offence, even if the package does not beathe Trade Name or Mark, but is sold in such a manner as to be like to deceive the public.—(Vide the recent decisions in favour of the Prorietor of the Trade Name "Tivoli Beer," and others.)

Te may remark that an infringement makes the offender equally liab, whether such infringement be intentional or not. The highest judial decisions render this perfectly plain.

Very respectfully,

BURROUGHS, WELLCOME & CO.,

Importers, Exporters, and Manufacturing Chemists, Snow Hill Buildings, London, E.C.

SI

SPECIMEN

SEASON 1883.



Blue Trade Mark supplied as un

The "En Norsk Labels, in Colours

at 2/6 per 1)

SANITARY TOWEL." FOR LAD

Price, 20/per doz. packets to a/c. Retail. 2/ each. Circulars, with Press, Medical, and Nurses' Testimonials, free on to EACH PACKET NOW BEARS THE SIGNATURE OF THE PATENTEES AND MANUFACTURERS,

BARCLAY.

Manufacturing Pharmaceutical Chemiste, BIRMIN and Wholesale and Export Druggists,

INK, different from anything else ever produced. Writing becomes a pleasure when this Ink is used. It has been adopted by the principal Banl Offices, and Railway Companies throughout Ireland.

It writes almost instantly full black.

Does not corrode Steel Pens.
Dries rapidly on the Paper.
Is cleanly to use, and not liable to blot.

Flows easily from the Pen.

Blotting-paper may be applied at moment of writing.

In Jars, 6d., 1s., and 2s. each.

Can be obtained, in London, through Messrs. Barclay and Sons, Farringdon Street; W. Edwards and Son, 157 Que' Street, E.C.; F. Newbery and Son, Newgate Street; S. Maw, Son, and Thompson, Aldersgate Street; Hayden 10 Warwick Square, Paternoster Row; Hovenden and Sons, City Road; Ayron and Saunders, Duke Street, Goodall, Backhouse and Co., Leeds; Jno. Heywood, John Dalton Street, Manchester; James Hemington, 6 M: Birmingham; Henry Hodder, Broad Street, Bristol.

BEWLEY & DRAPER, Limited, DUBLIN.

See "CHEMIST AND DRUGGIST," December 15th, 1874.

A portable, elegant, and efficient vehicle for the Administration and Use of Important Medi Specially adapted to the requirements of Medical Practitioners in the Country and the Colors

The universal and increasing demand for this novel and effectual method of carrying, in the smallest possible a supply of the most important medicaments to be found in the surgery has induced Messrs. Savory & Moore

REDUCTION IN THE PRICE OF GELATINE LAMELS FOR INTERNAL USE,

which are now sold in Sheets of Twenty-four Lamels each at 1s. 3d. per Sheet, Quinine and Emetia Lamels excepted. in a little water, the Lamels are readily taken, and without the slightest taste.

A SMALL POCKET LETTER CASE will contain an ample supply (several hundred doses) of the Lamels of varied character and description.

DISCS FOR HYPODERMIC

INJECTIONS.

DISCS FOR OPHTHALMIC USE.

Consist of small (SQUARE) discs, impregnated with a definite proportion of alka Issued in Tubes of 25 Discs, price 2s. 6d.

The chief feature of these Discs is their instant solubility, by which hypodermic can be immediately obtained of uniform and reliable strength; they keep good for an a period in their dry state, and are extremely portable.

Comprise minute (ROUND) discs, impregnated with a definite proportion of alkalon Issued in Tubes of 100 Discs, price 2s. 6d.

The n i "The Discs have the advantage of slowly softening and dissolving. gradually dissolves out, and is absorbed. Hence much smaller doses serve to marked effect."

BLISTERING GELATINE, or LAMELLÆ CANTHARIDIS.

The most elegant, efficacious, and convenient mode of Blistering.

SAVORY & MOORE, 143 New Bond Street, LOND



CO HAL BUILDINGS, 42 CANNON STREET, LONDON, E.C.

Published on the 15th of each Month.

bscription, 10s. per year, payable in advance; commencing from any date.

st free to every country in the world. Single Copies, 1s. each.

Bur clubbing arrangements The Chemist and Druggist and the Druggist of New York, are supplied together for 14s. 6d. per um through us, or \$3.50 per annum through the office of our New

Orders to be made payable to EDWARD HALSE, at the Gen Post Office.

- TCHEMIST AND DRUGGIST is supplied regularly by arrangement with the spective Councils to all members of the following societies:—
- Tharmaceutical Society of Victoria.
- Theharmaceutical Society of New South Wales.
- Tharmaceutical Society of Queensland.
- Il harmacentical Society of New Zealand.

Kiternru

Contents.

	PA	GE	PAC	GЕ
nt	4	1 1	Editorial Notes 5	14
	alia 4		The British Pharmaceutical	
	rmaceutical Conneil 4		Conference 5	14
	rmaceutical Society of		The Protection of Phar-	
re.	1 4	184	macy 5	18
	ish Association 4		Pharmacy in Australia 5	
8	hool of Pnarmacy,		Pharmacy in Canada 5	22
Blo	sbury Square 4	187		523
	tish Pharmaceutical			24
	ence	514 i		24
	Executive Committee 5			25
	of Poisons at the		Trade Reports 5	
	Science Congress 5	512		29
	of Methylated Finish 5		Correspondence	
	or accord a resident	,,,,	Correctpondence	OL



PUBLISHER'S NOTICE.

FIRM who wish to advertise in the CHEMISTS' AND DRUG-GISTEDIARY, and who have not yet given instructions, are reque d to favour us with eopy at earliest convenience.

We port a very successful meeting at the British Pharmace cal Conference at Southport. The President (Prolesson ttfield) delivered a political address, advocating more islative protection for pharmacists. His arguments have en supported by many of the leading organs of public pinior, and we print quotations from numerous leadinarticles in the medical and political journals. The Conferce has resolved to meet at Hastings next year, with I. John Williams as President.

By votes to 8 the Pharmaceutical Council decide again in exhibition this year. It appears that some of the people ho exhibit have ideas of promoting their business theret a tendency which seems to have surprised some of the pr-minded members of the Pharmaceutical Council.

One committee has been appointed by the Pharmaceutic Council to get on with the curriculum scheme. What's become of all the former committees appointed on thinterminable subject is not explained. And the worst

of it is that the real difficulties will not begin until the details have to be arranged.

The second Hanbury Gold Medal, awarded biennially for the best original research into the natural history and chemistry of drugs, has been awarded to Mr. John Eliot Howard, in recognition of his valuable investigations in respect to the cinchonas.

The prosecution of a Hampstead enemist for sale of tincture of quinine alleged to be deficient in quinine has completely broken down, Somerset House having certified that it was of full pharmacopæ'a strength. By some extraordinary process of reasoning the magictrate did not think proper to allow the defendant's easts. Mr. Alfred Preston, as a member of the Hampstead Vestry, has made a vigorous protest against such prosecutions.

A meeting of retail druggists was held at Washington last month, at which druggists from about twenty States were present, when a National Re'ail Druggists' Association was organised. Membership was confined to "retail druggists in the United States in business on their own account, and not connected either directly or indirectly with the wholesale trade." The annual subscription was fixed at \$1 per annum. Mr. Henry Canning, of Boston, was elected the first president. The immediate purpose of the Association seems to be to compel proprietors of, and dealers in, patent medicines to supply only those retailers who will agree to sell at marked prices, by boyeotting such as will not enter into the contract. It is evident that if a sufficiently powerful organisation of retailers can be thus united, it can excreise great influence. As the grievance is an English one as well as an American one, the result of the experiment will be watched here with considerable interest.

The Board of Inland Revenue have promised a deputation from the Chemists and Druggists' Trade Association that when their officers purchase methylated finish for analysis a portion shall be left with the vendor. The affairs of the trade would seem to be in a fairly happy condition when its representative association is reduced to the necessity of agitating in regard to so small a grievance as this. Prosecutions of vendors of methylated finish have been for supplying the article with a deficient proportion of gum. Any chemist can sell methylated spirit without any gum in it at all by taking out a licence at 10s. a year, and the chemist who says he does not sell enough in the year to make that expenditure justifiable cannot lose half a sovereign per annum by giving up the business altogether. We cannot think that a solemn deputation to a Government Department in reference to such a trifle as this is calculated to develop respect for the trade in official quarters.

The scientific meetings of the season will commence next month, and probably not the least valuable will be those of the Society of Chemical Industry at its various local sections. We hear that, in addition to those in the metropolis, Manchester, Liverpool, and Neweastle-on-Tyne, sections are forming in Birmingham, Bristol, Leeds, Dublin, Belfast, and Glasgow. The results of the meetings in such a number of sections should be of great value to chemical technology. The new President (Mr. Walter Weldon, F.R.S.), is devoting much energy and ability to the work of consolidating the society and improving its already excellent journal.

In order to complete our report of the Conference in one number, we have been compelled to hold over several interesting letters and reports.

D

Pharmacalia.

LEGAL PROTECTION OF PHARMACY.

PROFESSOR ATTFIELD, with characteristic activity, and with no less skill, has gathered together a mass of evidence to show that pharmacy at the present moment is in a had way. The retail trade is in a melancholy position, its professional aspect not recognised; and even its purely medical department is invaded by the unqualified and the ignorant. For this the remedy proposed is hy extending, to amend the provisions of the Act of Pharmacy, and greatly to increase the number of drugs which may be deemed poisons and be sold by those only who have fulfilled the conditions which the law enjoins.

The statement of these facts, and the inferences deduced, constituted the annual address before the British Pharmaceutical Conference held at Southport.

There is no hetter proof of the ability with which this has been done than that the doctor's observations have been thought worthy of deliherate criticism by several of the leading journals of the day, and especially by the *Times*. It will be unnecessary to attempt an analysis of a production which will itself be earefully read by the whole body of pharmacists of Great Britain.

The President of the British Pharmaceutical Conference, standing as a barrister to plead a cause, has admirably fulfilled his task. He has something to assert, and he makes good his assertion by direct evidence: he describes an evil and points out a remedy. That our national pharmacy is in a bad way in many districts is indisputable, but it will never cease to be cultivated with eagerness so long as an examination makes it semi-professional and respectable. Men love the social position which sets them above ordinary tradesmen, and that social position they can raise indefinitely by their own acquirements. In face of the whole statement, which viewed from its special line of argument we accept as both logical and trut hful, we advise the most despairing pharmacist to be content with nothing short of the major qualification if he desires to be abreast of the situation. He will force the position, though the legislature may he slow to extend or to confirm his rights. Hundreds (we leave a wide margir) do not believe this. Their sole anxiety is to discover with what little knowledge they may gain a title, the mere possession of which is proved to be of so little value. That this title is more often a label than a reality is one fertile cause of waning husiness.

Yet history should go for something. Our great houses, which are more held in honour now than ever, and threefold as remunerative, did not rise by accident. The men who directed them, voluntarily and with singular prudence, anticipated modern progress, and harnessed sound learning to the wheels of trade.

"These are words," said Macaulay, writing of Montgomery, "which have made, and will again make true poetry;" and we may say, this is a mode which has made, and will again make true pharmacy. But others looked on with envy, and wished for the same success without the same trouble. They, chemists and druggists, not co-operative stores, began to introduce a miserable price-list, and a degrading scale of remuneration. In their case it was somewhat honest, for they had nothing but shop capabilities to recompense; and they went naturally into outlying spots, and poor neighbourhoods, where we find them now. Then they competed with each other; cut each other's throats and sent their profits down to zero.

Having succeeded to their satisfaction, the next step was

to revive the condition of the till by foraging ato ot trades, chiefly ornamental waves and knienacs.

The title chemist and druggist, &c., like t Heb language, was read hackwards. The et cetera ame fi drugs were a had second; and chemistry was no ere.

Down came the Act of Pharmacy and did its est, but arrived too late to avert the consequences.

Sundry retail trades perceived little different between the druggists and themselves, and were not away that the were poaching on their preserves, and as the general trade articles they in turn sold trade point this heartily; consistently, but alway with kindliest feeling for the druggist, we have advected inevitable result, and mournful actualities have prediction.

We are unable, then, to endorse the theory c Profe Attfield that to the failure of the Act of Phan cy is the existing gloomy aspect of affairs; nor do v trust much to legislation to remove the element of womes,

Still, we grant that his proposal is one step adva and it will he all the more potential as druists p their chief confidence in intrinsic, personal g lifeat We helieve that Professor Attfield and his co jutors their teaching and example, are doing more fuhe tr prosperity of pharmacy than all the Acts of Phar cy whave been, or will be, devised. The crisis indical will arrive so long as their influence over the rising enera of pharmacists is maintained.

PROFESSOR FOSTER'S ADDRESS TO STUDIES.

There was a brilliant gathering at Bloomsbur quare October 3, when the prizes and certificates were tributed by the President, Mr. Carteighe, and the hree fessors, Redwood, Bentley, and Attfield present t reports. The lecture theatre has hecome quitenadeq to meet the exigencies of these demonstrations. While general audience were fairly accommodated the tinguished visitors, and those to whom special c rtesy to be paid, were eramped together in a most un mfort manner. Perhaps our energetic chief might se is wa the erection of a large tent in the sylvan glad oppo when next, men like John Eliot Howard, Professo Abel, Professor Armstrong honour us with a visit, at form strong an additional attraction. The school, it pears, prospered both in numbers and in the hours deved to While there has not been an instance of exceional distinguished merit, there have been many cas in w students have successfully devoted themselves the curriculum of the school, and thus, while no Pe ira m was awarded, the studies generally were in a lost se factory condition. The competition for the Bell holar was far greater than on any previous year, entycandidates, drawn from widely different locali s, ha come forward to claim this once rather neglecte lonou So unaccountable was the want of enthusia in

So unaccountable was the want of enthusia in direction some time back, that we heard it dissed far this method of encouragement might be conadvantage.

A regret was expressed by several of the au those who were entitled to receive honourable did not make their appearance. One gentlem and was absent under the happiest circumstances, respectively. The been selected for an important and remunerative solitors. We hope—as we do not doubt—the sustain the reputation he has gained at home, rethanks become a resident in the flowery land.

Directly after the pleasant ceremony of the regive had concluded, Professor Michael Foster-well own

his visiological researches—began his address. It was extrore, and was delivered altogether without the aid of mote With great respect for the speaker, it does not seem deside that this should form a precedent for future left rs.

T subject treated of examinations—the abuses to whithey were liable; the mode of making them most effect; and the value which should be assigned to them sat; of the acquirement of knowledge. He considered that enerally speaking, the teacher of a class was most like to be the best judge of the proficiency of his pupils; that impulsory study was, on principle, to be discountement; and that the system pursued at South Kensington, boths regards teaching and examination, was a model wor of imitation. He commended as admirable the plan of intering one or, say, two subjects at a time, and then, whe less had been completed, to pass on to another group. The loaching "system would be no longer requisite, and the finer's occupation would be gore.

Bivhile the Professor would not object to compulsory and and examinations, he would make an exception whethe public health and their unprotected interests were need. Finally, one had written on the subject, We life worth Living?" and, he would ask, was it so fort pharmacist? There were the supposed good times when he physician could without let or hindrance, and with qualification, proceed to cure or kill; when the drugt, in virtue of three coloured bottles, might sell pols to his neighbour. But the one in some country vills sank down to the level of his surroundings, and the other as no higher than the common tradesman.

Neer ever could regret the nobler position won for them, y intellectual culture, and the personal satisfaction sain by knowledge.

Pressor Foster told his story in the most captivating man; and related it in a series of surprise sentences, the point which was ingeniously delayed to the conclusion. His arers were kept constantly on the alert, and testified by the unrestrained applause the pleasure they had felt. Weld not reopen the vexed question of examination. Its wait bearings may be discussed ad infinitum, and many judics things said on either side. Our students are under fixed gulations, from which they cannot swerve; and it has been hown conclusively that it is not our examination system which needs amendment, but the legal conditions underwhich pharmacy is conducted.

THE HANBURY GOLD MEDAL.

If came the great event, the presentation of the Bancy Memorial Medal to Mr. Howard.

It is offered by Mr. Carteighe in the name, not only of the sudicators, but in that of the pharmacologists of all the vld. In brief words the eminent quinologist expressed bis this for the honour thus conferred. He did not forget that was a member of the Victoria Institute, and he said that had studied science purely and simply for its own sake He thought the first object of desire was to be a Chrim, and then a man of science; and that in his experie and belief there was no contradiction, quite the conty, in striving to be both.

The Pharmaceutical Council.

OCTOBER 3, 1883.

A LL the members of the Council were present except Mr. Andrews; Mr. M. Carteighe, President, in the chair.

THE PHARMACEUTICAL CONFERENCE.

The VICE-PRESIDENT (Mr. Atkins), as one of the delegates to the Pharmaceutical Conference, remarked on the scientific and social success of the Southport meeting.

PARLIAMENTARY.

The President reported that since the August meeting the Patents Act had been passed, but that, in consequence of an interview he had had with Sir Thomas Farrer, the clause relative to the use of the Royal Arms in trade had been amended to meet the wishes of the Council. The Medical Acts Amendment Bill had been withdrawn, but he believed their efforts had not been wasted, for he had reason to believe that when the Bill again came before Parliament it would contain some clause recognising the claims of pharmacists to be associated with medical men in the revision of the Pharmacopæia.

Mr. Young remarked that the Society were much indebted to Mr. Symes for bringing forward the question of the Royal

On the motion of Mr. HAMPSON, a vote of thanks was passed to local sceretaries and others who had assisted the Council in regard to the Medical Bill.

ADDITIONS TO THE REGISTER.

The following persons, having duly made the necessary statutory declarations and produced the necessary certificates, had been added to the register:—

Thomas Campbell McCormack, 19 St. Saviourgate, York. Benjamin Death, 147 Charles Street, Stepney, London, E. William Thomas Upfill, 74 Rodney Road, Walworth, S.E.

LAPSED MEMBERSHIP.

On the report of the Finance Committee being submitted a discussion took place in Committee respecting the fines on members who wished to be restored to membership. Ultimately the question was referred to the Library, &c., Committee

BENEVOLENT FUND.

The Benevolent Fund Committee recommended four grants of 10l. each, and five of 5l. each. Also 10l. towards the support of the Isherwood orphans, and 10l. towards the apprenticeship of one of them. It was stated that six annuitants had died during the year, leaving thirty-six on the list. It was proposed to elect six other annuitants in December, and a list of ten available candidates was submitted. The recommendations were all adopted.

INFRINGEMENTS OF THE ACT.

From the report of the General Purposes Committee it appeared that Charles Campbell, 555 Rochdale Road, Manchester, had paid a fine of 5 ℓ and costs, and that J. C. Copley, 51 Robin Hood Street, Nottingham, under stress of a County Court order for committal in default, had paid 8 ℓ 8 ℓ 3 ℓ as penalty and costs. Proceedings were ordered to be taken in other cases which had been considered.

PHARMACEUTICAL EXHIBITION.

Mr. Symes moved a resolution to hold an exhibition of pharmaceutical and chemical apparatus and other objects of general interest in May next. Mr. Radley seconded the motion; but, in the course of a discussion, it was remarked by several who had served on the committee of the last exhibition that it had proved impossible to get together an exhibition at all without admitting articles which were sent in simply for the purposes of advertisement, and it was also thought there would not he a sufficient variety of novelties to make it worth while to hold the exhibition at present. The motion was rejected by 10 votes to 8.

[&]quot;'E FLYING SCOTCHMAN" is a term which somewhat state one's sense of congruity, but when we come to think of it; is, at any rate, a less improbable juxtaposition of adject and substantive than when the natives of Holland are nilarly qualified. The appellation is invented to design a very easy writing new pen with which Messrs. blacter & Cameron, of Edinburgh, have endowed mankind

THE PROPOSED CURRICULUM.

The following resolution was moved by Mr. SCHACHT:-

That a Committee to appointed to frame, with the assistance of the Solicitor, such modifications of the bye-laws as will give effect as far as possible to the resolutions in respect of the future training of candidates for examination under the Pharmacy Act which were adopted by the Council on March 7, 1883.

Mr. Schacht said that since March last they had been a little trammelled by the possibility of an amended Pharmacy Act; but, as it was possible that might be still further delayed, he thought it was desirable to see whether the Society did not already possess the power to carry out the modifications which had been approved. As a layman, he did not say the Council had this power, but he quoted from the charter the words "for the purpose of promoting an uniform system of education for those who should practise the same" in support of his belief that they had the power to enforce a curriculum. He thought, with the assistance of their legal adviser, they would he able to accomplish what they desired.

Mr. SYMES seconded the motion.

Mr. Borland thought that to enforce a curriculum would be distirctly illegal. The Acts of 1852 and 1868 required them to examine any person who should present himself, and, in his opinion, gave them no authority to enforce a curriculum.

Mr. WILLIAMS held a similar view, but he should support the motion, because he thought their solicitor would not allow them to go wrong. He had found that there was a general feeling in the country in favour of establishing a curriculum.

Mr. Hampson, however, moved as an amendment (which was seconded by Mr. Borland)—

That increased statutory powers be obtained before giving effect to the resolutions in respect of the future training of candidates for pharmacy adopted by the Council on March 7, 1883.

He asked, why this unnecessary haste? The Government assessors did not agree with the proposals—one of them, at least, distinctly did not—and no doubt the Privy Council would consult with them on the subject. Mr. Schacht did not propose to consult the solicitor as to the legality, only to get him to frame the new bye laws. But was it wise, now that they were going to Parliament for fresh powers, thus to strain their present powers to the utmost?

Mr. GREENISH said the solicitor had previously expressed his opinion that they had not the legal power to make these

bye·laws.

Mr. ATKINS and Mr. Young thought it was desirable to go forward, leaving the legal responsibility with the solicitor; and Mr. Bottle thought if they had power to require that candidates should be of full age, and should have teen employed as apprentices or students for three years, they had equally power to require that they should pass through a curriculum.

Mr Schacht replied, and on vote Mr. Hampson's amendment was lost by 13 to 4, the votes being as follows:—

For: Borland, Churchill, Greenish, Hampson.

Against: Atkins, Bottle, Butt, Carteighe, Gostling, Hills, Radley, Robbins, Savage, Schacht, Squire, Symes, Woolley.

Mr. Williams did not vote.

The motion was then put and carried.

The following gentlemen were appointed the committee:

—The President and Vice-President, with Messrs. Bottle,
Butt, Hills, Schacht, Symes, Woolley, and Young.

Mr. Hampson was nominated, but declined to serve.

THE LATE MR. ATHERTON.

The PRESIDENT referred to the death of Mr. Atherton, formerly a member of Council, at that time residing at Nottingham, which occurred at Tunbridge Wells on September 13. It was resolved that a letter of sympathy should be sent to the widow.

THE PHARMACY ACTS AMENDMENT BILL.

A letter was read from the Secretary of the Chemists and Drugeists' Trade Association, soliciting that an opportunity should be afforded to the Committee of that body of conferring with the Council of the Society on the subject of the proposed Pharmacy Acts Amendment Bill. The President and Secretary were instructed to arrange a convenient time for such a meeting.

Pharmaceutical Society of Frelar.

ANNUAL MEETING.

THE annual general meeting of this Society was ld on October 1, at the new rooms of the Society, 11 Ecourt Stree', Dublin. There were only three members resent besides the members of Council.

The chair was taken by the outgoing President, I fessor

TICHBORNE. The President briefly addressed the meeting. the Society had now completed its twelfth year of extence, and he thought he might say that during that perio it had been fairly prosperous. They all recollected th great impulse the interests of the Society received in e first instance from its being taken up by the late Sir minic Corrigan; they should never forget all they owed o his name and position and the great interest he tool n the Society. During the time be (Dr. Tichborne) had en in office—and be might be allowed to refer to it, as the was bis last appearance before them as President- had endeavoured, as far as he could, to keep up thigh position in which Sir Dominic Corrigan had I, the Society. On his motion a resolution had heen wried requiring that the Society should elect a new President every three years, the object being to seve an infusion of new blood into the office, and to preve the operation of those feelings of delicacy which might therwise restrain gentlemen from changing their Presidt. A triennial period had been decided on, hut it might bfound desirable hereafter to have an annual election. At esent, however, he did not think the Society was large longh to warrant them in having a new President eve year. As he had already said, he thought they were ented to consider that the Society was fairly prosperous. It we true that only fourteen pharmaceutical chemists had pass their final examination during the last twelve months, but wing that period thirty-seven had passed their preliminary camination, which, added to the previous number, made 12 in all. Besides, they accepted the preliminary exam tions of other licensing bodies. The Society consisted of I ween sixty and seventy members-he wished they had mo -and they had enrolled over 200 licentiates, so that there as no doubt that the body of pharmaceutical chemists after little time would become a power in the land. Prosecutis had been earried on and were going on at the present ment, and he was glad to say that they were in a more whesome condition as regarded these matters than hefore, if they had now a guarantee fund to defray the expense of psecutions, which was a proof that the Society intended maintain its position and to prevent illegal compounding n the country. The intention of their Act of Parliament is that they should be at no expense for prosecutions, anchould even clear a couple of pounds on each; but in the petical working of the matter it turned out that each prodution cost them from 25l. to 30l. There had been consistable talk of late about the status of the pharmacien, and was maintained that he was more than a mere tradesm, and, in fact, a professional man. He thought they wild all agree to that. But unless the pharmaceutical chemistroved to the public that he was a better man than the co-or ative store man he would not be able to compete with the tter.

FINANCIAL REPORT.

Mr. Hodgson, treasurer of the Society, said he we sorry they had not a larger attendance on that occasion; do he particularly regretted the absence of the Vice-Prodent. The balance in the Bank of Ireland was 62L 0s. compared with 17L 15s. 11d. last year. The income examinations had been 212l. 2s., as against 190l. la The subscriptions from members last year amound 68l. 5s. for sixty-five members; in the year just they had only received 53l. 11s. from fifty-one mother items brought their income for the past year pooling of the sexaminers; 13l. 13s. for the reporting of these mentions to Mr. Purcell, Q.C., for an opinion, 2l. 2s.; increases of law committee, 17s. 10d.; salary to Mr. Finell, 52l; remuneration to porter, 9l.; rent up to May and printing and stationery, 16l. 14s. 6d. There years

ne item of 34l. 14s. 4d. for the Pharmaceutical Journal. he total expenditure had been 2281. 13s. 6d., which left a plance of 62l. 0s. 10d. The accounts had been vouched by r. Collins and Mr. Hayes. He (Mr. Hodgson) had to thank le Society for entrusting the duties of Treasurer to him. e was sorry that their funds were not larger, and he was invinced that the greatest economy would be required for considerable period in order to keep their accounts in a tisfactory stare.

After an inquiry from Mr. GRINDLEY, it appeared that an nount of some 201. or 301. was due for printing, and there ill be a considerable sum to pay for furnishing the rooms, hich Mr. Hodgson said would be paid out of capital.

Mr. Wells remarked that the Society were not much ore than solvent.

ELECTION OF COUNCIL.

The scrutineers reported that forty-ninc voting-papers d been received, and that the following gentlemen were ected to the vacancies on the Council: -Dr. Tichborne, votes; Mr. Allen, 45; Mr. Grindley, 44; Mr. Hayes, 40; r. Doran, 38; Mr. Evans, L.A.H., 37; and Mr. Draper, 35.

ELECTION OF OFFICERS.

The PRESIDENT moved that Mr. J. E. Brunker, M.A., elected President of the Society for the next three ars. That gentleman's merits were so well known, at it was unnecessary to dilate on them. As a pharmacien was a representative man, having one of the most imrtant establishments in the city, and he had worked indeigably to maintain the interests of the Society.

Sir GEORGE OWENS seconded the motion, which was

animously agreed to.

Mr. BRUNKER, baving taken the chair, tbanked tbe ciety for the distinguished honour they bad conferred on n. The old maxim ex nihilo nihil fit was quite applicable the present position of the Society; it could not be worked thout the sinews of war; and he trusted that an increased mher of licentiates would become subscribing members. Dr. MONTGOMERY moved a vote of tbanks to the Society's

e President, Dr. Tichborne, for the very laborious and tremely courteous manner in which he had attended to the ties of the office since the death of Sir Dominic Corrigan. Mr. Hodgson seconded the motion, which was supported

the PRESIDENT, and carried.

Or. TICHBORNE briefly thanked the Society for the vote ich had been passed, and for the complimentary remarks

ich had been made in reference to him.

Ir. GRINDLEY moved, and Mr. WELLS seconded, the ction of Mr. J. C. Payne, of Belfast, as Vice-President. Ir. HAYES moved that Mr. H. N. Draper, F.C.S., be cated Vice-President. He did not question for a moment high qualifications of Mr. Payne, but be was convinced it it was essential for the interests of the Society that ir Vice-President should be resident in Dublin, and ways at hand to give the President any assistance that he luired. Mr. Draper was one of the examiners of the liety, and from the beginning had taken the greatest

Ir. SIMPSON seconded the motion, and general concurce heing expressed in regard to the necessity for the

e-President being resident in Dublin,

igrest in it.

Ir. GRINDLEY said he thought he would be doing what ald be most in accordance with the feelings of Mr. ne hy withdrawing that gentleman's name.

Ar. Draper was then elected Vice-President.

Mr. Hodgson was re-elected Treasurer.

1r. Hugh Fennell was re-appointed Registrar.

lessrs. Allen and Hayes were re-elected Auditors, and

feral committees were organised.

)r. TICHBORNE moved the continued supply of the Pharreutical Journal to the members, and Mr. GRINDLEY onded the proposal. This was opposed by Mr. Hodgson, Montgomery, and the President, but it was ultimately teed to continue the supply for six months.

COUNCIL MEETING.

the monthly meeting of the Council of the Society was d on October 3, Mr. Brunker, President, in the chair. husiness consisted only of the consideration of a few lsonal matters brought before the Council by correindence, and was not of general interest.

The British Association.

THE session of the British Association, held at Southport last month, certainly maintained the popularity of this display of the forces of British science, and was generally allowed to have sustained in scientific weight the dignity of the various philosophies represented, which, in contact with the frivolities of fashion and the enjoyments of social life, is in no small danger.

The address of the President was certainly not calculated to encourage any tendency to the vulgarisation of science. Professor Cayley, the Sadlerian Professor at Cambridge, is one of the most eminent of living mathematicians. He won the senior wranglership in 1842, and has ever since devoted bimself with calm patience, but with enormous activity, to the studies which attracted him in his youth. After holding a Fellowship in his University for some years, be found it necessary, as that source of income was only temporary, to seek some profession, for mathematics can hardly be said to be a financially hopeful pursuit. Soon after taking his M.A. degree he became a pupil to an eminent London conveyancer, and his great talents ensured him as much success in that occupation as he cared for. But when the opportunity of returning to Cambridge offered itself, with the prospect of devoting his life to his studies, be readily sacrificed law and prospective wealth for his mental satisfaction, indicating his views and his practice by the remark that the object of law was to say a thing in the greatest number of words, and of mathematics to say it in the fewest.

Those who listened to him at Southport may have fairly regretted that the legal tendency so described had not had a little more influence over him. With an evident appreciation of the fact that his science bad not the same attraction for amateurs as chemistry, biology, astronomy, or geography, be disdained to make any attempt to speak down to the level of the nineteen-twentieths of his audience who could have followed bim fairly well if he bad cared to link his ideas together by slight explanations, but who, dropping the thread of his argument from time to time, found his disquisition, as Sir Walter Scott's friend said of the dictionary, very learned, but somewhat disconnected. The first section, in which be combated John Stuart Mill's theory that the truths of geometry can only be appreciated by experience, was fairly clear. Mill says he does not believe anyone can conceive of a mathematical line, that is, a line without breadth. He supposes it to be only assumed because it is thought that without such a conception mathematics would not be possible. Cayley replies, all depends on the meaning we attach to the word "conceive." He would say that the imaginary line is the real one, and that that which we see is the shadow of it. If we cannot conceive the line, bow can we deny its existence? But the dis-cussion became harder as the President proceeded. The speculations as to one, two, three, or four dimensional space, which are just comprehensible to the non-trained mind when read, were lost in bearing because the speaker did not take the trouble sufficiently to define the technical terms. From this on to "the imaginary variable x + iy" the address soared to positions to which the ordinarily-educated person is not, as a rule, accustomed, and to most of the audience became unintelligible. Nevertheless we are bound to believe that all these speculations touch the earth somewhere; such is the everlasting moral drawn at all British Association meetings; but it must be admitted that Professor Cayley has not the peculiar talent which can present abstract science in an attractive concrete form.

Dr. J. H. GLADSTONE, as President of the Chemical Section, sketched the present condition of the theories as to elements. He described the old Chinese theory that there were five elements-water, fire, wood, metal, and earth. This chemistry in China is certainly as old as the time of Solomon. The Greek notion of the four elements Dr. Gladstone believes to be still retained, even among many scholars who take degrees. Coming then to the interesting question as to the possible resolution of the elements, as we now know them, into fewer bodies, Dr. Gladstone succinctly reviewed the evidence offered by (1) the spectroscope, (2) the periodic atomicity of certain groups of elements, and (3) specific

refraction.

Spectroscopic observations had not yet thrown much light on the subject. The spectra of iodine and bromine, for instance, were not that of chlorine, plus certain other rays; nor does multiplicity of rays indicate necessarily complexity of constitution; it may merely indicate a more complex arrangement of the atoms. Mr. Lockyer's experiments with the solar spectra show that sometimes certain spectra, as of iron for instance, disappear altogether; and his theory is quite reasonable, that the iron may be dissociated in the heat. But it may also be that the spectra are changed, as is known to be the case sometimes, by the varying temperature.

The remarkable groups of clements with properties similar, but varying with their atomic weight, suggest polymeric formations; but Dr. Gladstone pointed out that the specific refraction of the elements, as far as it has been determined, does not show that regular increase with the atomic weight as is the case in regard to known compound bodies. The general tendency of the argument was to show that the elementary radicals are essentially different from the compound radicals, though their chemical functions are similar.

There does not appear to be any argument which is fatal to the idea that two or more of our supposed elements may differ from one another rather in form than in substance, or even that the whole seventy are only modifications of a prime element: but chemical analogies seem wanting. The closest analogy would be if we could prepare two allotropic conditions of some body, such as phosphorus or cyanogen, which should carry their allotropism into all their respective compounds, no compound of the one form being capable of change into a compound of the other. Our present knowledge of allotropism, and of variations in atomicity, affords little, if any, promise of this.

The remarkable relations between the atomic weights of the elements, and many peculiarities of their grouping, force upon us the conviction that they are not separate bodies created without reference to one another, but that they have been fashioned or built up from one another, according to some general plan. This plan we may hope gradually to understand better, but if we are ever to transform one of these supposed elements into another, or to split up one of them into two or three dissimilar forms of matter, it will probably be by the application of some method of analysis hitherto unknown.

In the rest of his address Dr. Gladstone referred to the radiant matter spectroscopy described by Mr. Crookes, whereby the fluorescence of certain bodies exposed to electric discharge in a vacuum is tested; to the brighter prospects for the teaching of chemical subjects introduced by the Mundella Code, and to the establishment of the Society of Chemical Industry.

Professor Henrici, who presided over the Mathematical Section, made a vigorous attack on the present teaching of geometry in England, condemning Euclid as a text-book, while expressing his admiration for it as a treatise, and holding up modern French and German methods of teaching as being preferable to ours.

Professor W. C. WILLIAMSON, the President of the Geological Section, in his address sketched the present state of our knowledge of the vegetation of the carboniferous age, the controversies produced by certain discoveries, and the advance of scientific opinion respecting them, expressing and vindicating his own opinions on many disputed points; and he referred to the bearing of the whole subject upon the doctrine of evolution, which was supported by the wide distribution of carboniferous plants and the few spots at which they were found displaying any internal structure.

Mr. Pengelly, in presiding over the Anthropological Section, took a retrospect of the researches of Messrs. McEnery, Godwin-Austen, himself, and others in regard to the human remains and flint implements in Kent's and Brixham Caverns, near Torquay. With a good deal of relish Mr. Pengelly fought o'er again the battles of a quarter of a century ago, and gave his reasons for believing that man existed in Britain before the hyena arrived here. He concluded with a few instances of how correspondents had from time to time sent him what they regarded as fossilised skulls, which were nothing more than curiously-shaped stones.

Professor RAY LANKESTER provided the first sensation of the meeting in his address to the biologists, in which he

made an almost passionate appeal for public funds force endowment of biological laboratories. After reciting ine of the beneficent results of the labours of biologal investigators, such as the studies which have resulted in he antiseptic treatment of wounds, Pasteur's discoveries, c., the speaker said that England must not be content becase she could claim a few great names, such as Harvey, Huer, Darwin, and Lister; the question was, could she no do more than she did? At present only persons of independent fortune, or persons specially endowed, could pursue his branch of study. It is in German laboratories that he work of the science is now being conducted. The Geran endowments of professors of biological sciences were estimed at 80,000%, per annum. Besides these there are special iti-tutions also endowed. France possessed the State-endeed Collège de France, Sorbonne, Ecole de Médicine, lole Normale, and Jardin des Plantes. Comparing with thes he provision in England at universities, museums, Kew Garens, &c., there might be reckoned in all about thirty-eight pelins salaried by the State, against some 300 in Germany. It as argued that the new knowledge produced by biologal researches could not pay, itself; that if the investitor were also a teacher his time was too much taken up; lat if he wrote books on his studies there was not sufficient demand for them to make them profitable, except in the exceptional instances, such as that of Mr. Darwin. Profpor Lankester has his plans all ready. To be approximally level with Germany, he wants in England alone forty iological laboratories, in addition to the fifteen which av be reckoned as already existing. These would cos to start, he reckons, about 160,000l.; then some 60,0l. would be required annually for the maintenance. Thre was property left by Sir Thomas Gresham 250 years 30, now estimated to be worth about three millions, exprily for scientific research. This property has been deliberally appropriated to other purposes by the City and the Meers Company with the consent of Parliament. That the acon of Parliament in this respect may be repealed is not unlily as a result of the present Commission. With extraordinaly bad taste and bad judgment Professor Lankester wounap his argument by pressing for this State endowment or he ground that scientific study was what we had to lock to replace "the old fashioned stimulus to a higher life." To make his claim the recognition by the nation of practal atheism was a most unnecessary tag to an otherwise ple address, and will ensure its rejection for many a long ly.

Colonel Godwin-Austen, who presided over the Geraphical Section, gave for his address a careful account of he physical aspects of the Himalayas; Mr. Inglis Palgre's address to the section of Economic Science was a mild see of politics, but except that it urged that the science did not solely consist in the discovery of the means of product wealth, but had for its object also the promotion of the meter of all classes, did not contain any very definite insection; and the address of Mr. Brunlees to the Mechala Science Section related chiefly to the progress that had en made in railway construction. He regarded the application of electricity as a motive-power as one of the possibilities of the future.

Of the papers read it will not be possible to speak in ly detail at this time. Those which attracted most atter on were Mr. Trelawny Saunders' advocacy of the Jordan Cal, which was generally pooh-poohed; Mr. Park Harri's description of the so-called "missing-link" Krao, who be found to be only an ordinary Siamese child with a abnormal development of hair; and above all, and 1st deservedly, Mr. H. H. Johnston's account of his experices on the Congo with Mr. H. M. Stanley, followed by the reing of a letter from Mr. Stanley himself. The chen al papers were mostly highly scientific, and it would no be possible to give a résumé of them of any use or intest except at great length.

On the Sunday it happened that two bishops (Car le and Derry) were both preaching at the same time from le same text, "What think ye of Christ?"; while at and re church the Rev. S. Haughton, M.D., F.R.S., of Dublin, k the opportunity of firing a broadside into the evolunt theory, founding his remarks on the text, "If the blind d the blind," &c. He said Nature could be explained only one or other of two methods. One involved design at a designer, which some accepted only as a "working h."

thesis." The other was gradual formation out of crude mass by chance. Elaborating these views in an imaginary conversation between two friends, he said the latter view meant Nature playing pitch and toss with herself. He cited Gulliver's philosophers arranging words by chance, and said that by that method it would take them longer than man had been on the earth to indite five lines equal to those in the Odyssey describing the neglected condition of a dog during its master's absence, and its death from joy on the master's return. A cockroach or a butterfly was infinitely more complex than Homer's works, and the question arose whether Nature had had time enough to manufacture all these beautiful things by chance. The mathematical section would not accept a paper on perpetual motion, which was not possible, because all material things contained in themselves the seeds of their own destruction. The clock of the universe was running down, and must at length cease ostrike. A machine that was running down must at one ime have been wound up by something outside itself which was not either matter or its laws. Stating the case between he old doctrine and the new, he came to the eonclusion, as matter of pure logic and reasoning, without any reference o revelation, that the new doctrine required more credulity han the old one.

The next meeting of the Association is to be held at Montreal, commencing on August 27, 1884, the elected Preident being Lord Rayleigh. For 1885 Aberdeen was chosen. The total number of tickets sold for the Southport meeting vas 2,714, making it one of the most successful meetings he Association has held.

THE SCHOOL OF PHARMACY, BLOOMSBURY SQUARE.

N the evening of October 3 the theatre of the Pharmaceutical Society was crowded to witness the distribution fprizes to the successful students of the School of Pharmacy, o listen to the address of Professor MICHAEL FOSTER inugurating the new session, and to do honour to the second ecipient of the Hanbury Medal, Mr. John Eliot Howard.

The President, Mr. Michael Carteighe, took the chair at alf past eight o'clock.

Professors Redwood, Bentley, and Attfield, who were all armly applauded, briefly reported on their respective lasses during the past session, and stated the results of heir examinations. The awards were as follows:—

HEMISTRY AND PHARMACY. (Professor Redwood's Class.)

Five Months' Course. FIRST COURSE.

Bronze Medal .- David Recs. Certificates of Merit.—Edward Baily, Charles Ranken, Sidney Phillips, tancis Ransom, Thomas Soutball Dymond, William Edward Crow, James addock, David Low, Edward Ernest Sewell, Arthur Pumphrey.

Bronze Medal.—Lewis Walter Hawkins. Certificates of Merit.—John Chinery Wiggin, Ernest James Reynolds, In Rodman Mowatt.

Session. Ten Months.

Silver Medal.—David Rees.
Certificates of Honour.—Francis Ransom, Edward Baily, David Low.
Certificates of Merit.—Charles Ranken, William Edward Crow, Thomas uthall Dymond.

OTANY AND MATERIA MEDICA. (Prof. Bentley's Class.)

Five Months' Course. FIRST COURSE.

Bronze Medal.—William Edward Crow.
Certificates of Merit.—Edward Baily, David Low, William Lloyd Williams, dney Phillips.

SECOND COURSE. Bronze Medal.—John Chinery Wiggin. Certificate of Merit.—Ernest James Reynolds.

Session. Ten Months.

Silver Medal.—Edward Baily. Certificates of Honour.—Francis Ransom, William Edward Crow, William oyd Williams, Charles Ranken and David Low (equal), Edward Ernest

Certificates of Merit.-Thomas Southall Dymond, Arthur Pumphrey, John pinery Wiggin.

PRACTICAL CHEMISTRY. (Professor Attfield's Classes.) Session. Ten Months.

Silver Medal .- William Edward Crow. Bronze Medals.- I homas Southall Dymond, David Rees.

Certificates of Honsur .- Charles Ranken, John Chincry Wiggin, William Lloyd Williams, Bernard Keene. Certificates of Merit. - Edward Baily, Francis Ransom, David Low, Edward Marsh, James Burden Barnes.

> HERBARIUM PRIZE. (Reported on by Professor Bentley.)

Bronze Medal.—Thomas Stephenson. Certificate of Merit.—Frederick Miller.

COUNCIL'S PRIZES.

Messrs. William Southall and Sidney Plowman had conducted the examinations for these. Mr. Plowman submitted the report. He said they had concluded that though the two gentlemen to whom awards had been made had displayed great merit it was not quite so much as to entitle either to the Pereira medal. The prizes awarded were :-

Pharmaceutical Society's Medal (Siiver); and Books value 31., presented by Mr. T. II. Hills.—William Lloyd Williams.
Pharmaceutical Society's Medal (Bronze); and Books value 21., presented by

Mr. T. H. Hills .- Edward Baily.

THE JACOB BELL MEMORIAL SCHOLARSHIPS. (Examination conducted by Messrs. G. S. Taylor and C. Ekin.)

Mr. Taylor reported that there had been twenty-five candidates, and that the scholarships had been won by-

Messrs. Fraser McDiarmid and Robert Wynn Charles Pierce.

The INAUGURAL ADDRESS was delivered by Professor Michael Foster, who (speaking extempore) said he was not altogether an outsider as regards pharmacy, for in times past he had rolled cills, folded powders, and written in a legible, if not in a bold, hand the directions how they were to be taken. Besides that, he had the honour to be an honorary member of the Society. Having agreed to deliver this address, and knowing there would be a distribution of prizes, his mind had run on examinations. As he understood, examinations were used for two purposes. First, to take the result of those examinations as a stamp, or a certificate. But a certificate of what? He had some little right to speak on this subject, because as a young man, although examina-tions were not so "rife" in those days as now, he was a good deal examined. Indeed, he looked back to certain years of his life as being a kind of hurdle race in examinations. He had no sooner cleared one examination than there was another ahead of him. Then instead of being an examinee he became an examiner, so that he might speak on this point, and yet he felt compelled to say that the real thing of which the result of the examinations is the stamp and the certificate is ability and skill in passing an examination.

Nevertheless, we may use the examination safely in an indirect way. The stupid man and the idle man will never acquire skill and ability in passing an examination; the industrious and the clever will easily show skill in passing an examination; and we may use an examination indirectly very safely as a pass examination to separate the industrious and the clever from the idle and the stupid. But we may even then make mistakes, and those mistakes become much more probable when we use the examination as a means of sorting out people from each other; when we pass from the pass examination to the competitive examination. We have no doubt that A. is cleverer in passing an examination than B, and in all probability A, will in future life be a better man, and prove a more real man than B. But that is not always the case; the examinations often fail us in that respect. Often good examination men did not prove of great value in atter life; again and again men who have not done well in the examination-room have been of enormous value in after years. And then modern refinements have increased our difficulties.

Whenever an examination is instituted in order to select the fit persons for this or that, there always arise a certain number of people who undertake to put a lad through that examination whether he be fit or not. We have an idea that the prize in an examination is given because in the race the lad arrives at the goal by the exercise of his own limbs, and that his speedy arrival at the goal is a test of the soundness of his mind and the strength of his limbs. But a "coach" takes him on his back, and lands him there; it is at his expense he is carried there, and his arrival there is a token not so much of the lad's ability, as of the "coach's" skill. There are some "coaches" who gain their end by rea teaching; but they have deserted their clan: they are no longer "coaches," but teachers. But all are not so, and coaching has nowadays schieved the position of a fine art. The "coach" when he takes to coaching pupi's does not consider in the first place the nature of the study, but what he is pleased to call "the examiner's mind." He makes a study first of all the examiners. He knows their whims; he knows their fancies; he learns what answers will, if he might say so in the presence of others who were like himself examiners, tickle them most, and he directs his efforts accordingly. Indeed, some of these "coaches" who have a large number of pupils take on them the functions of a general. They marshal their forces, and one examination where the viva voce is of some importance, a "coach" has been in the habit of sending his weak, hopeless pupils in first to know what the style of the questions was in order that the hopeful pupils might benefit by the knowledge. This is a very serious and important additional difficulty, in taking the results of an examination as really a stamp of the mcrit of the candidates who have passed the examination.

But after all the lad who goes in for an examination in any subject must in some way or another learn something of the subject. The examination compels knowledge, and there are many of us who know that but for an examination into which perhaps we entered for some partly vainglorious purpose, for the mere reason of getting a certificate or winning a medal, we might never have got an introduction to a science or a knowledge which soon fascinated us, and to

which we have become attached ever since.

He believed that the evils of examinations might be diminished, and the good increased, by simply multiplying them. He thought the evil of examinations lay a great deal in their formal character: in their being frequently one supreme effort which is made and is left. He regarded that examination as the worst where a lad, after two or three years' study on a variety of subjects, is examined in all of them in the shortest space of time. For instance, in a certain university, the subjects are so many that, as a poor, disappointed, despairing student said, preparing for this examination was like driving a lot of pigs. You have no sooner got hold of one subject than the others are all abroad. The best examination was that kind carried out in a partial manner in the School of Science at South Kensington, and which, if fully developed, takes on somewhat of this form, that a lad having to study two, three, or four subjects does not attempt to drive them, so to speak, all abreast, but takes one, or at most two, and devotes his whole attention to that one or at most two. Then as he attends the lecture, aud especially as he carries out the practical work belonging to the lecture, a note is now and again taken by the teacher of the progress which he makes, and any doubt which the teacher may have is remedied by frequent informal examinations. At the end of the course there is a formal examination undertaken by the teacher, or by the teacher with the help of an assessor, in order that things may be straight and above-board. But, it might be said this would assume the form of compulsory lectures. He considered, however, that these would not be compulsory lectures; but such a course would involve compulsory study, and that compulsion is necessary for the good of the individual as well as the good of the public, of which he is a part. He was opposed to compulsion, but he did not think such compulsion unjust, nor that legislation meddlesome or unnecessarily restrictive which gives the public security concerning the sale of things which are becoming in their nature alarmingly dangerous, and more and more alarmingly dangerous every day. If security is to be offered, that security should be a real one and not a fantastic one; and that security is not to be found in a rapid examination, however conscientiously conducted, but such a security must be found in some such course of study as he had ventured to sketch out.

But this was somewhat dangerous ground. A young gentleman has of recent years acquired some notoriety by his somewhat crude handling of an old topic, "Is life worth living?" And it may occur to many to put the question: "Is the pharmacist's life so much worth having that you are ready to undergo all these examinations, and to sink the money involved in them?" He could imagine people saying, "We have spent so much money and so much time in acquiring the right to sell strychnia with our sovereign's approval. We wait for customers, but they do not come,

and in the end we find a faithless public buying it clandituely and cheaply round the corner." This is a grave id anxious matter, and one on which an outsider perhaps out not to say much. But it is a difficulty not confined o pharmacists; dectors have the same complaint. They y that if the stringency of medical examinations is to be creased in the future as it has been in the past, the you gentlemen who have thus been made to sound all the deris of biological knowledge, and to equip themselves with le whole panoply of the healing art, will never stoop to he drudgery of village practice, and that our country poor Il be left to the mercies of unlicensed quacks. The same y comes also from other departments of life. Everywhere te hear that this science, which has turned the world up te down, has come hither also. But is it not because sciencis becoming an increasingly potent factor in the struggle or human life, and is making the struggle a closer and a bittler one? The work of science is to enable the skilled ferto do the work which is done, or which used to be done, byte unskilled many. It lengthens the arm of each man, it within an area it diminishes the number of those who in live within that area. It is tightening up the whole wed. Everywhere science is making itself felt, and in many espects, maybe, the whole of life is becoming one brill it examination in science, and, moreover, the standardis raised year by year.

Now it is no good striving against the inevitable. As le story of human life unfolds, each passing stage has to charms, has its good and its ill; but you cannot hop to keep the good and let go the ill of each passing ple-There was a certain pleasure in the old savage life. It is very good to pitch one's tent where one liked without he dread of leases, of contracts, and builders' bills; but to there was hunger and thirst, and there was bloodshed event hand. And perhaps many doctors think it must have been 1 asant in the old times when anyone who liked, without refer ce to the central body, could set himself up to cure or to kill y of his neighbours who pleased to entrust their bodies to n. But he thought the doctors would be very loth, with all le charms of the past, to go back eighty years, and promacists too, would be unwilling to wipe out the Pha acentical Society, and all it means, and to go back fly years. But if you do not go back, neither can you sid still. Many of you, looking back forty years, might thin it was a purely voluntary act, the undertaking to institute 1e Pharmaceutical Society and all it meant. But, in realy, your ancestors were carried on by the spirit of revoling things, and that same spirit must carry you on to do ill further things, and it is far better for you to put yoursees in harmony with the necessary course of events—nch better to put your shoulder to than against the wheels

He did not from a pecuniary point of view fear that e er doctors or pharmacists would become so superlatively educed that the country districts would be left without men to escribe or men to dispense. The struggle for existen is getting far too sharp to leave any place of that kind vant

for any length of time.

All ranks are feeling the same pressure; everywhere ie same place is being occupied by a better man. Moreour, there is one other consolation, viz., that which you accusof breeding this discontent goes far to take it away, for is one of the happy features of the work of science in hunn life that while it is making closer and more bitter te struggle, sharpening the fight between man and man, is at the same time opening out new capacities for enjoyn t. You look back to the man who without any trouble cld set up his shop where he pleased without any previs education, without any previous training; but you mustmember that the life of such a man was in the vast maje y of cases limited to his dinner and the tittle-tattle of le village. He felt sure that every one who had pad through those portals felt that there are new pleasure of life opened up, and that though pounds, shillings, and pe are and must always be the framework of happiness, ll that the pleasures of an instructed mind are the best d most lasting habiliments of that framework. That is n element which you must fairly consider when you com ask the question whether, in the face of so many exam tions, so much increasing study, and so much diminist g return, a pharmacist's life is worth having.

जमन

British Pharmacentical Conference.

TWENTY-FIRST ANNUAL MEETING. SOUTHPORT.

HE sessions of the British Pharmaceutical Conference were commenced in a large room at the Prince of ales's Hotel, Lord Street, Southport, on Tuesday, Sept. 18. 10.30 A.M. There was a large attendance of members d visitors, with a sprinkling of ladies, and the room was

owded for the Presidential Address.

After a little delay, Professor Attfield took the chair, and Mr. W. V. RADLEY, Southport, Chairman of the Local mmittee, delivered a short address of welcome. He said felt it was a great pleasure and honour, on behalf of the emists of Southport and district, to give all present a arty welcome. The supreme wish of the committee was at it should be a happy gathering, and successful in all spects. Their anticipations were pleasant on account of estimulus, interest, and instruction to be derived from avaluable papers which would be read, and most especially account of the opportunity afforded them of making the csonal acquaintance and friendship of gentlemen of light dleading, whose labours were well known and appreciated. rticularly were they gratified at having Dr. Attfield at ir head. He was honoured and respected, and his works re appreciated not only in Great Britain and Ircland, but on the Continent and in America. Southport was but tripling among towns, but it was not deficient in strength, d was not indisposed to show its vitality in a little ware. They were not able to offer their guests rich treasures art. Theirs was a young town. Ninety years ago not a use was to be seen, and now it was essentially a residential on and health-resort. The chemists of St. Helens had ce to their help, and the members of the Conference "ald he invited to visit various large manufactories there. turalists would find something to interest them in the dhills surrounding the town. The Glaciarium, swimming. hs, and summer and winter gardens would help to enterin their guests. He hoped all would return home with asant recollections of their visit.

'rofessor ATTFIELD, in the name of the visitors, thanked Radley and the local committee for their cordial wele. They were fortunate to visit so thriving and vigorous own, which attracted the pleasure seekers from a populata of four millions within a radius of forty miles. He taked them for the cordial pharmaceutical enthusiam with sch from the first the local chemists had worked, and he tsted that they would find their reward in the frankness ¿ fulness with which their hospitality would be accepted. everal letters from members, expressing regret at their t, voidable absence, and the list of delegates, were read by

secretary, Mr. F. Baden Benger.

Ir. Sydney Plowman (secretary) then read the

REPORT OF THE EXECUTIVE COMMITTEE.

he report stated that the selection of the place of meetfor 1883 had been left in the bands of the Executive Invitations to Oxford and Southport were smitted to it at a meeting held in October last, and the cision of the British Association led to the acceptance of t latter. At this meeting the question of local arrangethis was raised, and the following resolution was

That it be a general instruction to the local committees of towns in which the Annual Conference is to le held, that their arrangements, both in respect to the business of the Conference and the entertainment of its members, be approved by the Executive before publication, and that the attention of local committees should be called to the report of the Executive at the Sheffield meeting, in so far as it relates to questions of entertainment.

The "blue list" of subjects for investigation had been revised, and a circular inviting them to membership had been sent to all the registered chemists and druggists in Great Britain, and pharmaceutical chemists in Ireland who were not already members. Nearly 350 applications for membership had been already received in response to this. but the expenses (921, 11s, 7d.) and the subscriptions were not included in the financial statement presented at this meeting, as the transactions took place after the close of the financial year on June 30.

The question of appointing colonial secretaries has been considered, and the general secretaries have obtained the names of suitable gentlemen in the colonies and India willing to undertake the duties. The following have been communicated with:—Mr. H. S. Evans, F.C.S., Montreal, for Canada; Mr. W. C. Ross, Trinidad, for the West Indies; Mr. A. Walsh, Port Elizabeth, for the Cape and Natal; Mr. D. S. Kemp, Bombay, for India; Mr. E. Taylor, Brisbane, for Queensland; Mr. H. Shillinglaw, Melbourne, for Victoria: Mr. L. B. Bush, Bathurst, for New South Wales; Mr. A. P. Miller, Hobart, for Tasmania; Mr. T. M. Wilkinson, Dunedin, for New Zealand. Sufficient time has not elapsed for replies to be yet quite complete, hut so far as they have at present been received they are most favour-Mr. Kemp advises the appointment of a secretary in each Presidency instead of one only for the whole of India, and consents to aet for Bombay if appointed; but Mr. Evans, in consenting to act for Canada, thinks one secretary sufficient for the whole of the Dominion.

Three money grants for the purchase of material on which to conduct researches have been made. They are as follow: 51. to Messrs. Dunstan & Short, to investigate the pharmaceutical preparations of nux-vomica, principally in regard to their alkaloidal value; 51, to Messrs. Dunstan & Ransom, to further extend the method of alkaloidal extraction with the chloroform-alcohol mixture, to be followed by a further grant of 5l. if required; 2l. 2s. to Mr. W. Elhorne, to determine the comparative pharmaceutical value of commercial

Reports will be presented at this meeting from Messrs. Greenish, Jackson, and Messrs. Dunstan and Short.

Twenty-three papers and reports have been received for the present meeting, but one was of a purely medical character, and was returned to the author as being unsuited for the object of the Conference.

The Bell and Hills Fund, founded by the munificence of Mr. Thomas Hyde Hills, provides for the annual expenditure of 10l. for the purchase of books for presentation to the library of the Pharmaceutical Association of the city or town in which the Conference meets from time to time. As Southport has no such association some difficulty arose as to the gift of hooks this year. The local committee, however, arranged that, if the executive committee could make the grant, the books should form the nucleus of a library, and that the local secretary of the Pharmaceutical Society of Great Britain, for the time being, should undertake the charge of them and should guarantee their legitimate use. Under these circumstances it was decided that the books should be presented.

The manuscript of the "Year-book," prepared by Mr.

Louis Siebold, was on the table.

Since the last general meeting at Southampton, 396 candidates had been elected to membership, 20 of whom reside in the colonies, 14 in Ireland, and 332 of the applications were sent by residents in Great Rritain in response to the special circular issued last July.

Mr. EKIN (treasurer) then read the

FINANCIAL STATEMENT, 1882-83.

The Hon, Treasurer in Account with the British Pharmaceutical Conference.

Dr.		£ s. d.
To Balance in band		217 8 4
"Sale of Year-book by Publishers		24 0 0
Sale of Year-book by Secretary		18 0 0
	• •	0 18 0
,, Advertisements, 1880 vol	• •	
,, ,, 1881 vol		8 3 0
,, ,, 1882 vol		90 1 0
"Subcriptions from Members		658 5 3
July, 1882. To Dividend on £250 Consols		3 13 5
T 1000	•••	3 12 6
Jan., 1886. ,, ,, ,,	• •	012 0
		1,024 1 6
C'r.	£ s.	.3
	<i>z</i> 5.	a.
By Expenses connected with Year book :-		
Printing, binding, and distributing	435 15	6
Editor's Salary	150 0	0
Advertising and Publishers' Charges	27 9	6
73 / 7 7 -	4 5	o .
Foreign Journais	* 0	
		— 617 10 0
"Secretary's Salary		100 0 0
Printing and Stationery		7 7 6
Sundry Expenses		4 5 8
., Postage		47 2 6
		5 0 0
		15 14 10
"Expenses of Southampton Meeting		19 14 10
"Secretary's Expenses Soutnampton		
Meeting		5 0 0
., Balance at Bank	221 8	1
, Cash in Secretary's hands	12	11
,, oach in cectebary a nands	1~	222 1 0
		223 1 0
		1,024 1 6
Assets, July 1st, 1883 (Cach in hand Consols (stock)		222 1 0
Assets, July 1st, 1855 (Consols (stock)		250 0 0
(Contons (seeds) **		

The Bell and Hills Fund showed a balance in hand of 251. 16s. 10d.; the books presented to Southampton cost 9l. 12s. 6d; 350l. is invested in Consols.

The PRESIDENT, in moving the adoption of the report, said that it spoke for itself, and showed that the objects of the Conference had been kept steadily in view. He mentioned that a Southport Chemists and Druggists' Association already existed "potentially."

Dr. QUINLAN (Dublin) seconded the adoption of the

report, which, he said, was a model of business-like clearness, and contained the promise of future success. were much obliged to the gentlemen who managed their business so well.

The report was unanimously adopted.

THE PRESIDENTIAL ADDRESS.

Professor Attfield then read the following address:—

THE FUTURE SUPPLY OF DRUGS TO THE PUBLIC.

PART II .- THE RELATION OF THE STATE TO PHARMACY.

Once more I desire to direct attention to the important question of "The Future Supply of Drugs to the Public." The one side of that subject, namely, "The Relation of Pharmacy to the State," I treated last year in my address to the Members of the British Pharmaceutical Conference assembled at the nineteenth annual meeting, at South-ampton. Again honoured with the presidency of that body, at the twentieth annual meeting, at Southport, I ask for attention to the other side, namely, "The Relation of the State to Pharmacy.'

I do not now purpose considering the ideal relationship of a state to pharmacy. Nor can I within the limits of an hour's address give even an outline of the actual relationship now existing between every civilised State and the pharmacy of that State. I must confine myself at Southport, as at Southampton, to the question as to what will be the character and conditions of the supply of drugs, in the immediate future, to the individuals and households of Great Britain, so far as that character and those conditions can be predicted from the character and conditions of the present supply. What pharmacy is doing and can do for the State, in the interests of every individual in the State, I described last year; what the State is doing and can do for pharmacy, in the interests of the public, is what I now desire to consider.

This condition of things is not only worse than that who the Pharmacy Act of 1868 was intended to remedy, it is y much worse. For to supply such unqualified drug sels large numbers of so-called wholesale druggists have spr g into existence, respecting whose qualifications for the wik nothing is known. So that at the present time the pulic are not only liable to be supplied with untrustworthy diss because a flaw in an Act of Parliament allows unexamid and unregistered men to practise as chemists and drugg s

A crisis in pharmacy is fast approaching. The endeaver of the British Legislature to provide for the propersupplof trustworthy drugs to the public is being seriously thwart. The great importance of such a supply is obvious, and 1868 Parliament enacted that after the end of that year o person should take the title "Chemist and Druggist." d practise under it, unless, after satisfying State examirs that he was properly qualified, his name was duly enrold on a State Register. Now, that it was possible for iv person probably utterly unqualified and certainly unrestered to act towards the public as a chemist and drugst without actually calling himself or using the words "cherst and druggist," was not then foreseen. Yet that is exaly what is happening. The practice which has long existed in is country, especially in thinly-populated districts, of see general shopkeeper, usually a grocer, selling two or the common drugs, a practice itself not always harmless, as within the past five or ten years developed into the salof nearly all drugs and medicinal compounds by shopkeeper of all descriptions in nearly all districts. Indeed, in sie cases, also increasing in number every year, completyfurnished shops, indistinguishable in appearance from the of registered chemists and druggists, are opened by unrestered and unqualified men, who are mere distributors n retail of drugs bought wholesale-men without prer knowledge respecting the dangerous articles they deal a and without any sense of the responsibility of their posit 1. The sham chemists and druggists, and large numbers of le general shopkeepers alluded to, sell everything the proper-qualified chemist and druggist sells. The only artiss which they are not supposed to sell are the few neevirulent poisons scheduled in the Parmacy Act, the sale of which, however, by the duly-qualified man do not make l. difference to him in the course of a year.

FRUSTRATION OF THE AIMS OF THE PHARMACY Аст, 1868.

but because the wholesale druggist supplying such reil vendors may himself be incompetent. Now, from wbole le druggists, men who do not keep open retail shops, le Legislature never has demanded evidence of qualificata. For, firstly, the old type of wholesale druggist was a manf probity beyond suspicion; and, fortunately for the healt of Great Britain, the old firms still exist, many a new e, doubtless, being as good. But, secondly, on the assumption that drugs and compounds are only splied retail by persons who have given evides of their fitness to manipulate such potent substants But, secondly, on le and to judge of their quality as they are ut into the shop from the warehouses of wholesale deale the assumption on which, apparently, the Pharmacy Acof 1868 was framed—on this assumption any evidence of quification of wholesale druggists is uncalled for and unnessary. Obviously, if all the retailers were qualified, e public would be amply protected. Indeed, considering e number of persons employed in a large wholesale dg house, and the extent to which division of labour is ear d in such an establishment, the supplying of evidence of quification of all who earry on different responsible operation there is, perhaps, not practicable. So that if any remy is to be sought for the serious state of things I am c sidering—assuming that it exists, and I shall show that does-that remedy will scarcely be found in the requir of evidence of qualification from wholesale druggists. t rather lies in an improvement of the Pharmacy Act s regards the retailers of drugs; but of this more later The serious fact for present consideration is that when the law of this country, in view of the welfare of the ed munity, in drug matters, contemplates the retail supply drugs by properly qualified persons only, that intention being extensively frustrated. Drugs of nearly all kir, simple and compound, are being indiscriminately stored

^{*} For the sub-headings the author is not responsible.

old by unqualified persons; stored with articles of food and drink, and, indeed, with nearly all articles required in lomestic life; and sold by shopkeepers of nearly every lass. Thus, drugs, besides being manipulated and vended y registered chemists and druggists, and sometimes by nedical men who cannot in all cases earn a livelihood rithout turning their surgery into a shop, are stored and old by barbers, booksellers, chandlers, confectioners, rapers, general dealers, grocers, hairdressers, herbalists, conmongers, marine-store dealers, oilmen, printers, pubicans, stationers, storekeepers, tailors, tobacconists, toy-ealers, wine merchants. Many of these shopkeepers are o doubt in a very small way of business; many, however, re prominent men doing large trades, and too often sell he drugs at cost price as mere baits to catch customers for ther profitable transactions. Then, as already indicated, esides these drug-sellers admittedly engaged in other ades, there are the sham chemists and druggists, the ploured show-globes in whose windows, and bottles on hose shelves mutely proclaim them chemists and drugists, but who are unregistered and unqualified.

This, I say, is an extremely serious state of things. It is, course, an unfair and very serious condition for chemists addruggists themselves—men who have fitted themselves their responsible calling in the manner prescribed Act of Parliament—for they are thus, many of them sing much of their means of living and of the means by sich they maintain their wives and families. But it is far

ore serious for the public.

DUCATED TRADERS THE ONLY PROTECTION FOR THE PUBLIC.

It is a serious state of things for the public for this chief ason, namely, that whereas purchasers of food are more or is protected from the purchase of bad food by their peral power of judging of the the quality of food, purchasers drugs cannot be protected from the purchase of bad drugs any personal power of judging of the quality of drugs. reat emptor does not apply in the case of drugs, because e purchaser has not the requisite knowledge to enable him beware. Even the aid which purchasers of food can roke from officials under the Acts relating to adulteration anot be obtained in the case of drugs, because, amongst ier reasons, nature yields drugs which vary very much in ality, and only trained chemists and druggists can prorly judge of such quality. Analysts quâ analysts cannot sufficiently familiar with the varying natural standards quality of all the many medicinal articles comprehended der the term materia medica -if, indeed, there are any h standards-to throw their official shield in front of the blic. From the evils of bad drugs the public cannot prot themselves; they cannot be protected by the machinery the Food and Drugs Act; they have no control over either importer of foreign drugs, the grower of indigenous igs, or the wholesale dealer in or manipulator of drugs; regards the retail dealer, the machinery for their proteca in the Pharmacy Act is incomplete: therefore it is pedient that the machinery for their protection in the armacy Act be rendered complete and effective.

NECESSARY LIMITS OF FREE TRADE IN PHARMACY.

Here let me endeavour to allay any alarm which the use the word "protection" may excite in the minds of free ders. And I say, first, that where the health of the public it stake, and where the public cannot protect themselves, exception to the rule of free trade may be and is allowed. r already the State does not permit free trade in some sonous drugs. Therefore an exception to the rule of free de is already allowed in pharmacy, hence this part of the extion need not be discussed. It is only necessary to coner where the limit of exception should be fixed. The line now drawn by the State between some poisons and others. contention will be, that the line should encircle all sons. Nearly all drugs are poisons, more or less. e, nearly all drugs should be excluded from the area of e trade. But I say, secondly, that the doctrines of free de do not apply to pharmacy. There cannot well be true edom of trade where the power of judging of the article ded in or demanded is all and only on one side. It is for 8 obvious reason that the spirit of free trade has not been A cannot be applied to those avocations commonly termed

professions. The inhabitants of civilised countries having desired legal or medical assistance, and well knowing that they were unable to form any immediate judgment on the quality of that assistance, have looked for and obtained external means of protecting themselves from bad law and bad medicine-means external to themselves. Such communities have required that lawvers, doctors, and others should give some evidence of qualification to official examiners, or have aided professional men to erect certain social barriers, known as etiquette and the power of the cold shoulder, for the exclusion of quacks, charlatans, and other unqualified persons from their ranks. Now, pharmacy is largely a professional avocation. In pharmacy we are on the border-line of the commercial and the professional. Pharmacy is partly a trade, partly a profession. The purchase and sale of an ounce of tincture of rhubarb is per se a transaction purely commercial. But if the dose is asked. or say, the best mode of administering the medicine, the transaction assumes a professional character; while the still more important question as to whether the purchaser is supplied with a trustworthy or a worthless article turns entirely on the vendor's professional knowledge-chemical, botanical, and pharmaceutical knowledge. In those subjects of professional knowledge he is educated; in those subjects of professional knowledge he is examined; to the extent to which he possesses that knowledge, to that extent he is a professional man. Trade and profession form the warp and woof of pharmacy, interwoven in every part of the fabric. The doctrines of free trade cannot, I say, be applied to professions. Therefore the principles of free trade cannot be applied to pharmacy. The purchaser of drugs cannot protect himself from the purchase of bad drugs. He is not, himself, in a position of freedom in this matter. Therefore he needs protection by methods external to himself. The most ardent champion of freedom will, I am sure, recognise this principle. The Legislature has recognised it, and the public has recognised it, and it has been applied to the practice of pharmacy as to medical and to legal practice, not by excluding unqualified chemists and druggists from practice by a code of etiquette or unwritten social lawfor, unfortunately, that method appears to be inapplicable in pharmacy—but by rendering illegal the use of the name or title "Chemist and Druggist" by unexamined and unregistered men.

The Pharmacy Act of 1868 was, at all events, intended to provide such protection. It has partially failed because incomplete: failed because, while requiring that chemists and druggists shall be properly educated, it has not prevented the uneducated from palming themselves off as chemists and druggists. The Act practically says sellers of drugs must be properly educated, yet allows uneducated vendors to sell drugs. The failure has arisen from a wrong method of protecting the public having been adopted—a method which could not be foreseen to be wrong, but which has proved wrong in the working. The method adopted was that of raising a legal fence around the mere name "Chemist and druggist"; the method which should, we now see, have been adopted was that of rendering illegal the retail sale of the simple and compound drugs of the British Pharmacoposia (with certain exceptions) by any but registered chemists and druggists, with the saving of all rights, of

course, to medical practitioners.

NEED FOR FRESH LEGISLATION.

The time has come when, for the welfare of the publication the Pharmacy Act should be rendered efficient. If this be not done, a period will soon arrive when the public, unable, as I have said, to judge of the quality of drugs for themselves, will be deprived—or a great majority will be deprived -even of those external means of protecting themselves which in most districts they possess now-that is to say, they will lose the advantage of dealing with duly-educated men; for thoroughly and legally qualified druggists will only be found in the more wealthy quarters of cities. A certain proportion of drug-vendors will always, for various reasons, qualify themselves. A certain proportion of any class of men are always ready to undergo voluntarily a course of special education, with its attendant set of examinations. Pharmacists form no exception to this rule. Before compulsory examination was instituted in pharmacy -that is, before 1868-about 25 per cent. of the chemists and druggists of this country voluntarily submitted to pretty much the same examination that all who would now call themselves "cbemists and druggists" are compelled to pass. And therefore, even if the present tendency for the retail supply of drugs to pass into unqualified hands were allowed to continue, a few well-qualified chemists and druggists would, for various reasons, be forthcoming. These would no doubt place themselves and their shops amongst the wealthier classes in the west-ends of towns and in fashionable watering-places, and such classes of the public would thus be duly protected from bad pharmacy. But other classes would be unprotected from the liability to be supplied with bad, weak, or spoilt drugs for daily needs or possibly for critical times when life and death are on the balance. Such a state of things must soon come to pass unless timely legislative action be taken. I say a crisis in British pharmacy is fast approaching.

PROOF OF THE PRESENT DEPRESSION OF PHARMACY.

But before we further consider the question of remedy, evidence must be adduced in support of the assertion that potent drugs are being sold largely in nearly all parts of the country by unregistered persons. Evidence of this kind I have gathered from ahout 200 different districts in England and Scotland—districts fairly representing the whole of Great Britain. I have been supplied with direct evidence, in the form of price-lists, of all the important drugs in general demand issued to the public by shopkeepers other than registered chemists and druggists, and in the form of statements from competent observers as to the kind and numbers of unqualified traders who vend drugs in the respective localities. Indirect evidence has been given to me in the form of returns showing the depreciation in the value of chemists' businesses, including the cause of that depreciation, during the past five or ten years.

In November last I sent to correspondents in about 300 districts copies of a letter, the chief paragraphs of which were as follows:—"I desire to show that it is to the direct interest of the public that something should be done to prevent the rapidly-increasing sale of drugs by unregistered and incompetent persons—an irregular form of trade which is said to have produced already, or largely contributed to the production of, a seriously-depressed condition of retail pharmacy. To this end it is desirable I should have more exact knowledge of the stated depression, and of its extent, than any single individual can at present possess. May I beg you, therefore, in the interest of yourself and your fellow-pharmacists, to help me by telling me bow far the oft-recurring statement that 'pharmacy is not what it used to be,' is true in your experience. For example, how far, in your judgment, is a business worth less than formerly; bow far, in your district, are drugs sold by grocers, dragers, &c., or by unregistered men pretending to be chemists and druggists; what proportion of an average drug business in your vicinity is pure pharmacy as compared with the part that has little or nothing to do with drugs; and is the pharmaceutical portion increasing or diminishing? Do you think that the taking of fewer or more concentrated medicines by patients affects the question; or that the depression in pharmacy is greater than has occurred in most callings of a general business character during the past few years? Can you throw any light on the matter?"

The correspondents selected were, first, a chemist and druggist in most towns in Great Britain having one or more members of Parliament, or containing three members or business-associates of the Pharmaceurical Society of Great Britain; second, representative pharmacists whose acquaintance I have made in my visits for twenty consecutive years, to the twenty towns at which the British Pharmaceutical Conference has assembled; thirdly, two or three dif-ferent classes of persons not actually engaged in retail pbarmacy, but who have daily dealings with retail pharmacists. Of the 300 correspondents I addressed, about 200, either at once or on a second application, sent me full replies to the questions, many offering to contribute any further information that might be desired. The greater portion of, indeed, practically all, the replies were, as might be expected, so far private that, while I am at liherty to make public use of the information they conveyed, I am not authorised to give the names or addresses of the writers. thank them cordially for their help, and I doubt not that

were any public inquiry into the relation to each other the State and pharmacy to be instituted, by a Royal mission, by a Committee of either House of Parliamer or hy any other authority, the majority of them would willing personally to substantiate their statements.

EVIDENCE OF PRICE-LISTS.

Respecting the evidence which price-lists afford of he sale of drugs by tradesmen other than druggists, little ed be said. Every retail trader who, finding it expedie to hold to the fiction that number one is the first law of nare, proceeds to roll three or four, or, it may be, ten or twee, businesses into one is impelled by convenience to corder and by policy to publish, a priced list of his many ardes of sale. Most householders in this country have probly received many such lists sent to them by way of adversement. In these lists drugs are commonly included. Fry drug in ordinary demand will be found there excepted were ypowerful poisons scheduled in the Pharmacy ct. Indeed, even these are not actually excluded, for, ce do not by their own names, but hy some fancy title, and cleed under the misleading term "patent medicines," even he most virulent poisons are sold by those unregistered per os.

TRADING AND PROFESSIONAL PRICES.

Not only, bowever, do such price-lists afford evidenc of the sale of drugs by traders other than druggists, ut, the prices quoted showing only a slight trading pfit ahove the wholesale price, the inference is fair that ch vendors are as professionally unqualified as they certally are legally unqualified—that is, unregistered. For a or 10 per cent, profit may possibly remunerate the an who is only a trader-indeed, who does not aspire t be anything more—such as a grocer or draper, but is dte inadequate for a duly-qualified chemist and druggist, io, in obedience to the demands of the public as expresse in the Pharmacy Act, and to his own sense of what is right as gone through a proper pupilage in pharmacy, chemicy, botany, and materia medica. As well might we expe a lawyer to thrive on a 5 or 10 per cent. profit othis stationer's work and his office expenses, or a docto to flourish on a 5 or 10 per cent. profit on his dispensing. rk and his surgery expenses. These men must be remunered for the brain-work they do for the public; they are fessional men. The druggist is in part a professional in, and must pro tanto he paid for his brain work. (And re, in parenthesis, I may remark that the public never stipatise a lawyer or a doctor as "a man who gets eleven cethree farthings out of a shilling," although this psetosarcasm would be far more literally true of either of the if it were founded on the insignificant amount of their dee costs or surgery expenses than it is of the druggist. he public should not so stigmatise the druggist. They stild regard the charge for a bottle of medicine as they regar he charge for a legal deed or for a medical prescription, natly, as a fee. For a fee it is in every professional sense of he word. And, in order that the public may be set right in this matter, I strongly recommend druggists to think nd speak and write of their charges for medicines as fees. do not recommend that such a view of the case be thrust o he public; for, although persons are accustomed to pay wo fees, indeed a whole series of fees, for their law-fee to counsel, to their clerks, to solicitors, and for stamp (es, &c .- they will say they object to pay two fees for gir physic, that is, one to the physician and one to he pharmacist, forgetting that that is what they alread do when they obtain medicines of a chemist and drug st, whose charges and qualifications are commensurate. I do recommend is that, when occasion arises, the publi be reminded that that is what they do, and that, at all eves, this view of the matter be put forward by the druggist w never he is stigmatised as an ordinary tradesman desing more than an ordinary tradesman's profit. The pi ic having demanded for their own safety, by means of he Pharmacy Acts, that the retail druggist possesses ofessional knowledge, will not knowingly stultify the selves by treating him as a tradesman only. It to resume my argument. The public recognition of professional services, and not only professional men commensurate fees, but are only too to find such services at their disposal. Were any man set g

helf up for a lawyer or a doctor to offer to charge the p ic only a trader's price of 5 or 10 per cent. profit on the enses, he would rightly be suspected of having no profesal knowledge for disposal. Just so should a vendor of d's, who charges only a trader's price of 5 to 10 per cent. nt on the wholesale price of the drugs, be suspected of ng no professional knowledge respecting those drugs at h lisposal, no such knowledge as those chemists and drugof must possess who are properly qualified according to Act passed for the safety of the public, namely, the macy Act. The traders I am now describing charge o a 5 or 10 per cent. profit on the wholesale prices of d's, therefore they may be rightly set down as not having knowledge which the public, through the Legislature, h decided that chemists and druggists should possess. Untunately, the public, while realising the position in wh they stand to men who are wholly professional, as the re or the doctor, do not realise, and perhaps never will ge realise, the position in which they stand to the real chist and druggist. For the trading side of his work for thoublic obscures the professional side. The druggist may d omething towards inducing those of the public who the question, to regard this matter in the proper light, if habitually term the charge for medicine prepared from a scription a fee, as I have suggested; but probably not a cury of endeavour to educate the whole of the public up this point of treating him as in part a professional man wid be quite successful. Where the public cannot judge fchemselves respecting the qualifications of a professional p titioner, even to the extent to which they judge in a geral way of the position in which they stand to medical orgal practitioners, there the aid of the Legislature should st in. The public cannot, as regards pharmacy, judge of tharmaceutical ability of a vendor of drugs. Therefore the tharmaceutical ability of a vendor of drugs. thegislature should step in and aid the public by enacting, monly, as at present, that every man calling himself chist and druggist should be properly educated, but that ery man practising as a chemist and druggist should be perly educated.

reprice lists I have described show, first, that traders we names are not to be found on the State Register of clasts and druggists practise as chemists and druggists. Indly, they afford presumptive evidence that such traders not properly qualified. This is a serious state of things the public welfare, all the more so that the public cannot memselves detect it.

SMALL RELATIVE INCREASE OF PHARMACIES.

oreover, it is a condition of things pervading the whole ontry. Where the wealthy congregate it is not so obvious; b elsewhere its effect is only too evident, either in the tl'reduction of the number of assistants in a chemist's sh, in the discharge of the one assistant, the conversion The business into one of another kind, the owner still maining on the pharmaceutical register, or in the closing The shop altogether. Indeed, where one chemist's shop been opened in either of our many new neighbourhoods, has probably been closed in the older districts; for We population in Great Britain has increased by nearly ler cent. during the past ten years, the number of registid chemists has increased in that time only 2 per cent. It number was 13,216 ten years ago, last year it was only 1,47. Nay, in view of the fact that some of the chemists a druggists now on the register do not now actually practhe pharmacy, it is clear that while the general population h increased, the number of practising pharmacists has rably decreased. Certainly the number has decreased in land, if not in Scotland. What may be the exact signifince of annual variations in the numbers on the register ont, perhaps, be told until time has removed all who re enrolled by mere declaration before examination hime compulsory. The quality of businesses, howeveris, their efficiency for the requirements of the publich suffered far more than the number of such businesses. I only too frequently when a druggist's earnings are 1 1ced below the point at which he can afford to keep a glified assistant, the latter, to earn a living, is impelled pen a small shop somewhere in the neighbourhood, and, vie earning little from the practice of pharmacy, and probly not more altogether than he formerly received as an a stant, he draws a certain amount of business from his, or

some other assistant's, old master, who thereby is brought so much nearer to failure. The new businesses are not all equal in efficiency and general appointments to the old, and the old are depreciated. This action is going on all over the country.

SALE OF DRUGS BY UNQUALIFIED PERSONS.

Respecting the kind and numbers of unqualified persons dealing in drugs, the evidence I have received is overwhelming. Of the 207 replies to my questions, only six state that drugs are not sold by unregistered persons in the respective districts, one significantly states "not yet," fifty-five are either silent on the point, or allude to the old practice of grozers in thinly populated districts selling a few of the commonest drugs, while 145—75 per cent.—complain more or less bitterly of the serious depreciation in the value of their businesses through the sale of drugs by unqualified and unregistered persons. Without wearying my hearers or readers, I will quote from a few of the letters.

And first, as regards unregistered persons whose shops resemble those of chemists and druggists. Comparatively these are at present few in number, but quite sufficiently numerous, and increasing in numbers sufficiently fast, to show that the evil exists and that a remedy may fairly be claimed from the governing body of the State both as the guardian of the interests of chemists and druggists, as of all separate classes, and as the guardian of the welfare of the public generally. But to quote single sentences from some of the letters. No. 1. "In this town we have so called patent-medicine shops... where everything except poisons is supplied the same as at a chemist's." No. 2. Here is "an open shop to all external appearance, and to the eyes of the public as much a chemist's as any other, though the would-be chemist in it is without any qualification whatever." No. 3. Here "there are two men (unqualified) keeping open shops, who sell drugs, and are generally supposed by the public to be ordinary chemists and druggists." No. 4. 'Drugs are sold here to a very great extent by grocers and small dealers, but also in several cases by unregistered men whose principal feature of their business is drugs with the allied articles." No. 5. "We have a few persons pretending to be chemists and druggists, who have no qualification. No. 6. "In this not very populous district we have one unregistered man trading as a chemist and druggist." No. 7. "There is a man within 50 yards of my shop carrying on business as a chemist and druggist who is unregistered.' No. 8. "Two men, who failed to pass the qualifying examination under the Act, are now in business in spite of the Act, selling everything except the few scheduled poisons.' No. 9. "In a population of 30,000 about 200 shopkeepers not chemists sell drugs, as well as two unregistered men acting as chemists and dauggists." No. 10. "One man pretends to be, that is, has a shop fitted up like a chemist and druggist." No. 11. In this not very large town "two unqualified persons' shops have coloured globes in their windows, and present such other appearances that the public cannot distinguish between them and those of registered chemists and druggists." No. 12. "There are several unregistered men in this town pretending to be chemists and druggists." No. 13. "One unregistered man pretends to be a 'dispensing chemist.'" No. 14. "We have two shops here kept by unregistered persons. They sell everything just as a chemist does. The public cannot distinguish these shops from those kept by qualified men. The windows, &c., are fitted up like ordinary druggists' shops. I know for a fact that each sells not only ordinary poisons, but the scheduled poisons, though they are too wary to be caught." Could any evidence be stronger than that of these fourteen letters to show that an Act designed for the welfare of the public in a vital matter is being systematically evaded. Here are some twenty-five or thirty cases of persons openly defying the spirit of the Act, and of the clear intention of the Legislature and of the State. From the tone of many more of my letters, I gather that this number of cases might be multiplied considerably. And such evasion of the law must grow if not checked.

As for the evidence my correspondents give of the sale of drugs on a large scale by persons who do not openly pretend to have pharmaceutical knowledge, it is too voluminous for more than a glance. I have already given an alphabetical list of twenty distinct classes of shopkeepers, other than

druggists, who deal in drugs. This list is compiled from my letters, all of which agree that the drugs arc sold at prices from a little below to 5 per cent, above prime cost, and very frequently as more decoys, baits, or lures, to entice customers from other shops, and secure them as purchasers of more profitable articles. The prices which the druggist has been in the habit of getting for drugs-and which include payment for his professional knowledge, his special manipulative skill, and his personal guarantee of purity and efficacy-have been pointed out to the public by the traders described, they at the same time drawing attention to their own much lower prices, the inference insinuated being that similar savings (1) would be effected in all other things purchased from them. The unfortunate part of this matter is, I reiterate, that the public cannot, and are never likely to be able to, distinguish between good and bad drugs, or not until the health of the community has seriously suffered, and the livelihood of a large class of respectable citizens has been taken away from them. One writer says that, according to the statements of a manager in one of the largest store shops of the kingdom, the drug side of a co-operative store, or store shop, seldom pays per se; that even if a loss accrues, the sale of drugs is a cheap advertisement for the rest of the concern; the said manager adding, "Do you suppose we should care for this trumpery return, but that it enables us to say, See what extortioners these chemists are; see for yourself that you save threepence or more out of every shilling by dealing with us." Co-operative stores are rightly classed by my correspondent with other non-pharmaceutical shops. Indeed, as regards management, they only differ in being carried on by not less than seven owners, while most druggists' shops are carried on by one owner. It seems a monstrous anomaly that the law should allow seven or more men to carry on the business of chemists and druggists, and call themselves chemists and druggists, without being qualified, while it does not allow a single owner to carry on the business of a druggist and call himself a chemist and druggist without being qualified. And, according to the judges, that is what the present Pharmacy Act allows. It is said that a co-operative store company may even sell poisons if no registered assistant is employed, but a single unregistered shopkeeper must not sell poisons, even though he employ registered assistants. Surely there is one law for the store and another for the shop. I could give scores of quotations like the following: "Grocers, drapers, and others, now sell in this town not only Epsom salt, senna, castor oil, &c., but tinctures and other preparations, and, in short, everything but poisons." "Under cover of the patent medicine stamp, poisons such as laudanum, opium paste, and other morphia preparations, are sold here pretty generally by non-pharma-"So-called wholesale druggists, but ceutical shopkeepers." who are little more than retailers, supply small outsiders with all drugs, including tincture of opium." "With us the evil of drug-selling by non-druggists is growing." "All the small shops here sell packeted goods and paregoric nithout opium!" "Greers, teamen, and tailors sell so-called patents, packed goods, and proprietary articles as decoys, telling their customers that such things show fair specimens of their prices." "Mcn other than druggists sell drugs, but the articles I have seen are as low in quality as in price." the shops of the drysalters and general dealers in this neighbourhood, there is sold quite commonly, as a remedy for diarrhea, compound tineture of rhubarb, into which is poured a few drops of laudanum." "At the shops named no do ubt the public get supplied with cheap, but, to my knowledge, not with the best drugs."

DECLINE OF BUSINESSES.

And now as to the somewhat less direct evidence that "pharmacy is not what it used to be." Only 13 of the 207 druggists who replied to my questions could say that pharmacy was as flourishing as ever in their experience. Five of those resided in Scotland, one in the western part of London, and six in the provinces, while the shop of the thirteenth was on one of the smaller islands of Great Britain. One of the provincial six explained that although the chemists of the town were doing as well as ever, they had not increased in number in a period during which the town had increased threefold in population. Only four of the thirteen—four in 207—could say that pharmacy was

distinctly better than it used to be. Three of to four resided in Scotland, the fourth was the pharmacis of one of our smaller islands. On the other hand, more to half of the letters afford unquestionable evidence that armacists are very much farther off prosperity than 117 were ten years ago. The President of one of those many (emists and Druggists' Associations which exist, as much if not more, for the benefit of the public than of the phalacists, says, "There is much harass amongst the general ody of chemists and druggists." Another representativ says, "Pharmacy in this district is much injured an much depressed, and calls earnestly for a remedy in the terests of the public and in common fairness to oursels." third, writing from a large provincial town, says "The chemists and druggists of the town have had a meing to consider the subject of your note. Nothing but de ession and hopelessness was manifested. To say that phalacy is not what it used to be is to use a ridiculously mill hrase It bids fair to be wrecked." A fourth, in another art of England, says, "We are suffering great trials he, and must suffer more unless the dealing and working wi drug is restricted to druggists." A fifth, in quite anory dis trict, says, "Pharmacy in this neighbourhood has agencrated wofully. In a very few years fourteen drugets had become ten; five had the higher title of pharmoutica chemist, now I am the only one." A chemist n the Southern half of London says, "The sale of dgs by unregistered and outside persons is sapping the fordation of retail pharmacy. Within 500 yards of my she drug are being sold at about $2\frac{1}{2}$ per cent. profit, by four occur five oilmen, two herbalists, four hucksters, one saddl, three corn-dealers, one publican, and one ironmonger ... For the last six years my returns have steadily fall 1000 a year. A similar or worse result would be shownly me pharmaceutical neighbours." Of one town of fair at the statement is made that "pharmacy is being ob rated here: we are becoming general dealers." I cot give here; we are becoming general dealers." scores of similar quotations.

Depreciation in the Selling-price of Bus esses

In answer to my questions as to how far a buness worth less than formerly, 115 of my correspondent ut th depreciation at an amount varying from 25 1 cen to 50 per cent. in ten years. Many gave me, in co dence figures which showed that the loss in value was still reate Businesses in wealthy districts appear to mainten the value chiefly because their scarcity produces a little composition of the tition for them. One correspondent, of great ex rience says, "Ten years ago a business then returning 1, Dl. or 1,000% a year would readily command 500% or goodwill, but now with difficulty would realise 150% Thes with returns below 1,000l. and above 500l. a year wold the fetch 2001. for goodwill, but now are transferred for e mer value of stock and fixtures. Businesses turnin over annually, sums below 500l. a year, were former wort 1001. for goodwill; now hundreds of these are in the tarke quite unsaleable at any price." Another writer of quall wide experience says, "With the exception of one or that two businesses to be found in good towns, all he vermaterially suffered during the past ten years." A thi state that "Businesses in these counties often sell for co-thir of what they would have fetched a few years ago, wle fo many it is difficult to get premiums at all." A chaist is the suburbs of a large city says that "pharmacy is pidl . The oilr n and leaving many suburban druggists. . grocer and the stores are gradually destroying ph macy . A blue pill and black draught, lenitive el tuary essences, tinctures, syrups, all kinds of pills, are sol retained at prices for which I could not make the articles prerly. A letter from a metropolitan suburb, densely pollated states that, "One business here, estimated twenty yes ago to be worth 3,000l., sold eight years since for 1,74; th disappointed purchaser sold it three years ago for 1, 12; i has changed hands twice or thrice since; it would by b dear at 600%. Another business in this great thore hear about twenty-two years ago sold for 950%; it was pubased eighteen months ago for 540l. A neighbour's busing wat valued three years ago at 8001.—a well stocked, we kept double-fronted shop, useful house, good garden—it to a surgeon twelve months ago for 350%; its retus are now, perhaps, 300l. a year." A writer in a provincia town of er 100,000 inhabitants, savs, "I fear my account of ph lacy here would be too gloomy to receive credence. We are to eke out a living by some additional business. Al other we feel most despondent, and I believe any construction of the town would make a present of his fixtures to an erson taking over his business and labilities." A drist in a smaller town writes:—"Fifteen years ago an an neement that my business was for sale brought me set of offers of 500%. I had occasion to change my intention but now I cannot get offers of 100%." More than half of correspondents give statements to the same effect.

PRORTION OF PHARMACEUTICAL TO OTHER BUSINESS.

Ich more varied are the answers to the question res ting the proportion which in the respective districts the armacy proper, of an average business, bears to the mar hat has little or nothing to do with drugs: while the resises elicited by the inquiry as to whether the pharmacen al part of the business is increasing or diminishing in am tare less varied. Only in six cases do my corresponts report an absolute increase in purely pharmacer al business. Four report an increase in returns but a decise in profits; they have had to do more work for less Wat Several reporting a decrease both of returns and of pro, yet state that the relative returns from the pharmabus ss have increased, the explanation being that while som of the pharmaceutical portion has been taken away fro hem, severe competition has obliged them to relinquish ver regely the sale of non-pharmaceutical goods. On the oth hand, many having had the sale of drugs taken out of the lands by unqualified traders, have been compelled by the essure of res angusta domi, to cultivate the sale of gend goods until they have almost ceased to be chemists and ruggists, and have become grocers, oilmen, general de s, &c. Not a few, indeed, having had their half-professial, half-commercial ground cut from under them by the molified and unregistered traders in drugs, and not having the Il commercial power and training of their competitors, bay ost most of their business, whether pharmaceutical or gend. With such a state of things no one will be surput to learn that different druggists fix the proportion of pha accutical to non pharmaceutical business done in their sho at figures varying from 5 to 90 per cent. Some desce the amount of drug sales or general pharmaceutical wors "very little," "small," very small," "very limited." oth say, "We never see a prescription," "We seldom see apt ription." "I only now make up an average of four prescripons a week, and I am generally credited with having the it husiness in the town." "There are four druggists here nd we find that latterly we have dispensed about one pres ption per head per week."

My of my correspondents complain of a special feature of utimess in the competition to which they are subjected by utalified traders, namely, that these persons often sell drug for very inferior quality, probably without knowing it, and at the public, in similar ignorance, as readily purchashe almost if not quite useless stuff, tempted, doubtless the lowness of price. Unfortunately, very few of such ases can be touched by the Food and Drugs Acts. Only such an instance as paregoric being sold without the chief gredient of that medicine, because its active principles one of the substances legally deemed "poisons," does ere appear to be any means of checking the practice com ined of, a practice not only unfair to the druggist, but trimental to the health of the public. Public officials some mess express wonder as to where all the worthless or partly spoilt drugs go that are frequently exposed for sale, the large wholesale markets. My correspondents conlapparently, give information which would satisfy that

CONCLUSIONS.

Ar all this evidence, I think everyone will admit the follong propositions. First, that pharmacy in this couty, here and there in a fairly prosperous state, and now eyet actually in extremis, is nevertheless in a very saricly depressed condition. Secondly, that the prominent caus of the depression is the loss of trade in drugs of qualteed quality and loss of professional practice of pharcy by the responsible qualified and registered

chemist and druggist, and the acquirement of trade in drugs of unguaranteed quality by the irresponsible, unqualified, and unregistered trader. As for the professional practice in drugs lost by the qualified druggist, that has not been acquired by the unqualified druggist, and therefore has been lost to the public. Thirdly, and chiefly, this condition of things is seriously prejudicial to the public welfare.

MINOR CAUSES OF DEPRESSION.

No doubt other minor causes influence the depression. And these must now be noticed shortly But they do not in any important degree dwarf the main cause just stated.

Thus, respecting the practice of physicians prescribing more concentrated medicines than were administered formerly, only 19 per cent. of my correspondents think that it affects the question under consideration, 26 per cent. think it does not, and the remainder express no opinion. A few years ago this practice bade fair to diminish the druggist's income, he generally charging for prescribed mixtures a professional fee of a shilling or two rather than a trade price, a fee which custom had made dependent on the size of the bottle more than on anything else, a fee therefore, the value of which was in inverse proportion to the state of concentration of the medicine. But pharmacists have never, for that reason, made the matter a subject of complaint. They have rather pointed out the great danger of patients, nurses, and families being in possession of what were often deadly fluids; and the practice has gradually been relinquished. In my letters cases are still cited, however, such as 32 powerful doses of prussic acid in a single bottle of medicine; undiluted tincture of nux vomica, or strong solution of strychnia or strong solution of arsenic, in 1 or 2 oz. quantities, so many drops to be taken in water. In one instance a whole ounce of prussic acid, enough to poison seven or eight or more people, was ordered for one

Again, persons take less physic than formerly. Children in health are not now dosed weekly, even with brimstone and treacle, and healthy adults do not, as a rule, periodically dose themselves. Homeopathy and hydropathy have had their influence in this direction. Medical men have ceased to prescribe those complicated combinations of half a dozen or a dozen remedial agents which could scarcely be dispensed elsewhere than in the well-appointed shop of a chemist and druggist. They rely now rather on a few active principles or on the official single compounds of the Pharmacopæia. Some idea of the degree in which fewer drugs, &c., are prescribed than, say fitty years ago, may pethaps be gathered from the fact that in 1830 the cost of drugs per in-patient per annum at one of our large metropolitan hospitals, St. George's, was 16s. 5d.; while in 1880 it was less than half that sum, namely 7s. 11d. The former figures, however, include sums for leeches, agents now seldom employed.

Speaking of hospitals, there can be little doubt that these and the many other charitable medical institutions supply advice and medicines gratuitously to large numbers of persons who can well afford to pay, not only the medical practitioner for his diagnosis, but the druggist for his physic.

Here is a third minor cause of the depression amongst chemists and druggists. In the place of many of the prescriptions which formerly found their way to the druggist, physicians not unfrequently rely on and recommend proprietary preparations, forgetting, in their laudable anxiety to cure their patients by any or every means at their disposal, that they are thereby not only instructing the public in the art of prescribing for themselves, but also in the art of prescribing drugs which are often procured from neither the doctor nor the druggist; for patients carefully scan prescriptions, read them more easily than patients did fifty years ago, draw their own conclusions respecting those now under consideration, and then consult their grocer's or storekeeper's price-lists. This are of self-losing is further fostered by the advertisers of secret remedies, an art which in the long run is harmful to patient, doctor, and druggist alike, and only indirectly profitable to the twenty different classes of non-pharmaccutical shopkeepers who now deal in such things. Popular medical books and magazine articles addressed to the public all contribute to the same end. The result ensues that while the public on the whole take less physic than formerly, large numbers of those who do take much medicine take it in a manner over which neither

doctor nor druggist has any control. Not a little of this result is due to what I conceive to be mistaken policy on the part of medical practitioners. Verbally and through the press they never cease denouncing the druggist for compliance with a customer's request to be recommended a simple remedy, a practice commonly called counter prescribing, forgetting that they are thereby not only directing customers away from the druggist, but shutting the doors of their own consulting rooms to thousands of patients who had they not been thus prevented from seeking advice of the druggist, would have been told by that useful functionary that the case was one demanding treatment by a medical practitioner. Most druggists can tell of many cases in which serious illnesses have probably been prevented and even life saved by their timely recommendation to the person to obtain the aid of a medical man. Besides. if you debar the public from seeking a simple remedy at the druggist's counter, either by medical denunciation or by turning over drug-dealing to co-operative stores or to profitcutting general dealers, you not only do not prevent prescribing by others than medical men-for the public always did and always will prescribe for themselves in their own way, either with or without the aid of a druggist-but you play straight into the hands of the patent-medicine monger and the maker and distributor of secret remedies; you weaken the pharmacist and the physician; and you do harm to the physic-takers themselves. In the interest alike of pharmacist, physician, and patient, this patent medicine question needs careful consideration, with a view to reform. Patent medicines may and do contain on the one hand powerful poisons, and on the other useless substances. The well-trained druggist either already knows or can form a shrewd judgment of the nature of these officially stamped articles, and, by timely caution or advice, can prevent much mischiet resulting from the careless or ignorant use of a potent remedy, or from a too thoughtless reliance on worthless materials. No other shopkeeper has similar knowledge. The sale of patent medicines should therefore be restricted to qualified and registered chemists and druggists. By-the-bye, the pseudo-official character or guarantee and implied value given to these articles by the presence on them of "the Government stamp" should be removed altogether by the withdrawal of the stamp, a substitute for the revenue it produces being found in a greatlyincreased charge for the licence to sell patent medicines, and perbaps a charge for a licence to sell all other medicines. Euch a change would not be unpopular with druggists.

Another minor cause of the depression in pharmacy is found in the fact that many chemists and druggists have thoughtlessly encouraged the purchase wholesale and distribution retail of what are termed packed or packeted goods —be they patent medicines, proprietary preparations, simple or compound drugs, coated pills, or what not-instead of themselves preparing such articles; not foreseeing that they were, so far, transferming themselves from professional men into mere trade agents, and that goods of that kind once established in trade could as easily be dealt in by non-pharmaceutical as by pharmaceutical agents, and would only command agents' profits. Such men, also, bave not foreseen that to the extent to which druggists thrust all trouble and responsibility, whether as regards packeted drugs or any other drugs or compounds, on the wholesale druggist, who, by the way, may or may not be a competent pharmacist, they not only make mere agents of themselves, liable to lose their agency at any time, but they sap the foundation of retail pharmacy as a separate avocation, destroying its professional part and rendering its trade portion liable to be turned into other trade channels. Werse still, their action, or lather inaction, tends to deprive the public of that safeguard against the supply of bad drugs which the Pbarmacy Acts were designed to afford. This minor cause of pharmaceutical depression will become a major influence unless soon cbecked. Of course many medicinal preparations always have been and always will be made better and more economically in a large wholesale way than on a small retail scale. These are exceptions. But the majority of such things could be prepared as easily, and often more cheaply, if with a little trouble, by the qualified chemist and drug-gist; and he has only himself to thank to the extent to which, through not taking trouble, or through not working

professionally, he may have experienced loss of profisional or commercial advantages. He must not blame wlesale dealers for prosecuting a variety of trade he has meelf relinquished. Wholesale druggists, considering the drugs must pass through their hands, no matter by what gency those drugs are distributed retail, would probably orefer their old and simple rôle, and supply drugs to retail degists But if forced by circumstances to do the reta drug. gist's duty of packing drugs in retail-sized parcels, nd to sell them to non-pharmaceutical distributors, the w lesale druggists will, of course, do so with little hesitatio The mischief is that unqualified wholesale dealers may, ad do. start up and perform such work. And we may pred; that wholesale grocers and others, finding other dealers' trellers amongst their own shopkeeping customers, will theselves begin to deal in drugs; all of which is not to the ad ntage either of the public, the medical profession, wholesaldruggists, or retail druggists. "Drugs for the druggis' is a cry in which each of these four classes of the commuty, in their own best interests, may unbesitatingly concur Pace haters of monopoly. For certain it is that competion in this over populated country, and the jealousies and strust 2 line of one another inberent in human nature, and not the least in pharmaceutical human nature, will always previt the will evils of monopoly making headway in pharmacy.

The general depression in trade, especially in agric ture, then which has affected this country during the past fe years when has, of course, affected pharmacy. Druggists do no complete plain of this. But with scarcely an exception, moore-with spondents state emphatically their opinion the depression in pharmacy is far greater than in oth call-bleinings. A want of prosperity, general to the country, is ared whele by pharmacy but this is only one of the minor cases of what

pharmaceutical depression.

During these bad times, too, the proportion of rdical men who dispense their own medicines has, I am assud by smin nearly all my correspondents in England, greatly incused. The reverse appears to obtain in Scotland. Indel, it was her appears that not unfrequently in consultation cases in hich a physician is called in-at all events, in the souther half of Great Britain—the prescription of the physician is itercepted by and dispensed by the medical practition. It would seem from this as if the old days of the apot cary of past centuries were coming round again. And fror what I have previously stated respecting the increasing tre in drugs by grocers and others, it would seem as if the ds of the drug-grocer-the parent of the drug-gist, as the tter name implies—were after more than two centuries (ning round again. This state of things would be, howev, for Old England, not progression, but retrogression, not ad ocement. but degradation, not evolution, but devolution. Ibsit omen! No, we hope and believe that this condit of pharmacy is only temporary. Besides, the medical rn of the present day is one who, while having greater I fessional knowledge of medicine-that is, of diagnosi and therapeutics—than the old apothecary, has less profesinal knowledge of pharmacy. As a pupil in medicine he h had too many other subjects to study, and as a practition he has too many other matters to occupy his attention, to low of his possessing the old apothecary's acquaintance vith pharmacy, and still less to allow of his having any ing like the modern druggist's professional knowledge of larmacy. And, as regards the future, the increasing derads on him in matters relating to the preservation of heat, as well as to those which are ever increasing his pow of dealing with discase, will still further remove from im opportunities of studying pharmacy. So that the selli; of medicines and raw drugs by medical men, even if it uld become sufficiently general, which is not in the least d ree likely, would not relieve the public from the diffic ies The point to web, encountered in deserting the druggist. however, attention is now more especially drawn, is the tendency of the medical man to be his own drugst, decreasing up to about ten years ago, has since that me increased, and that this increase is one of the minor c jes of the depression of pharmacy during the past decade.

Improved sanitation, a more extended knowledg of hygiene, less overcrowding, a more general realisatic of the importance of exercise for the body, and of mental id physical recreation generally, a more temperate use of ur most seductive stimulating fluid and of those dishes with

nice but not nourishing; the employment of purer or for drinking purposes, a diminished superstitious belief i le therapeutical virtue of inert substances—in short, a her knowledge of the laws of life and of health, have coined to render medical practitioners and drugs and d gists less necessary to the world than they were sixty eventy years ago. But do the memhers of the noble possion of medicine, including their half-professional. commercial brethren of the fourth estate in medicine, nelly, pharmacy, eomplain of this advancement in know-On the contrary, these very men and others like th -by their researches and discoveries freely communical to the world through the machinery and periodical linture of the various medical, ehemical, and pharmace cal societies, e inferences, and associations—these very m are those who have most largely contributed to this ad cement in the wisdom and welfare of mankind, and ne clory in it more than they do themselves.

t the lahourer for the good of all is at least worthy of remable reward when working at his calling. The pharmust will continue his researches for the well-being of hiellow-men. When, however, in Great Britain, the State salo him. "It is necessary that you who deal in drugs shel for the welfare of the community be properly trained as 1 apprentice, be educated, be examined, and be refered," and then, when the druggist has willingly comwith the demand, the State permits untrained, uncated, unexamined, and unregistered men to deal in dr. the trained, educated, examined, and registered man ng y feels aggrieved and turns to the State for redress. Le his always be remembered, however, namely, that not odlor himself does he seek the remedy. He reminds the Sathat it was for the protection of the public health thate was required to be educated, examined, and reg red, and that it is in the interests of the public far more eve han in his own interests that he asks that this protections saved from being a sham, as well as that it be saved fro being a mere handicapping arrangement preventing him om making his way in the race for a livelihood.

RESULTS TO THE PUBLIC.

Is it never occur to the man who purchases cheap phy at a co-operative store, at a general dealer's, or some otheshop, to wonder what disadvantages would result if ever ody adopted that course? A very little reflection woulsuffice to picture a few. In the middle of a night, at ati of sudden and serious illness of one whose life is precis, he will require a certain trustworthy medicine. To poss it he would give ten times the total of the small sum le saved by abandoning his reliable druggist: for exculating pain or perhaps something worse has to be com ed without delay. He does not know at which grocer's orgonal storekeeper's he could procure the drug, and he ques as whether such a vendor would leave a bed to inqu who is knocking at the door, even if the summons were eard at all; moreover, he is not certain he could trustie medicine obtained there. Then may come an alltool, regret at the shortsightedness of the policy which the professional skill and ever-ready service of the qual d druggist in favour of the cheap but ignorant and msy athising general dealer. Again, a mother has been templ to purchase paregoric elsewhere than of a druggiat, owing that, unless the sale is an illegal one, the artic's free from that opium to which, when present in proportion, much of the efficacy of the medicine is due. he compound being thus weak, she almost necessarily gets o the habit of giving considerably enlarged doses to here dren. Some day there happens to be in the house, by adlent, paregorie of proper official strength purchased of a mist and druggist. The usual large dose is administered Then, perhaps, all efforts to rouse her child from its de sleep are unavailing. But to multiply illustrations wher eneral facts are so palpable is unnecessary. I have alrea in my opening remarks, shown why the supply of drug: then uncontrolled by the State, is seriously prejudicial to the sterests of the public. Eliminate special professional know ge from pharmacy, and let drugs be sold by any or every opkeeper, and the public will have no guarantee that they not supplied with drugs fair in appearance to the deye, but worthless to the trained eye of the druggist, (gs which once, perhaps, were of good quality, but which, without altering in appearance, have become spoilt by age, medicines weaker than they should be, medicines stronger than they should be, poisonous fluids for external application not properly distinguished from those for internal administration; indeed, the public will have no guarantee that they are not supplied with the wrong medicine altogether.

To put the matter still more broadly. Every civilised State has adopted means for ensuring the supply to the public of trustworthydrugs by professionally educated druggists. Such almost universal action would not have been taken had it not been ealled forth by universal necessity. The necessity is at least as great in Britain as in any country. Indeed, that necessity has been partially met even in this country by the enactments relating to pharmaey. But those Acts are working incompletely. The health and welfare of every individual in this land calls for a remedy for that incompleteness.

THE REMEDY.

The nature of the remedy is simple. It has more than once been foreshadowed in the course of this address. It involves no new principle. It consists merely in an extension of the spirit and letter of the existing Pharmacy Act. Under that Act about a score of medicinal substances are deemed poisons within the meaning of the Act, and are to be sold retail, as a rule, only by registered chemists and druggists. Let that list be considerably extended, saving all rightful interests of persons who otherwise would he unfairly preju-Let the retail sale in open shop of most of the simple and compound medicines of the British Pharmaeopæia be carried on only by qualified druggists. Is the question asked, "Wheree is to come the macainery for giving effect to such an extension?" The present machinery under the Pharmacy Act is ample for the purpose—with perhaps a few improvements in matters of what may be termed pharmaceutical police, for giving better effect to eertain sections of the Act, as, for instance, the employment of the inspectors under the Food and Drugs Act, or other inspectors, to see that unqualified traders do not infringe the Pharmacy Acts. In sparsely-populated districts let drugs be sold by unregistered persons: these acting, however, only as agents, the drugs being contained in duly secured packages, bearing the name and address of a registered chemist and druggist who should be responsible for the character of the contents. The parcels post has removed most of the transit difficulties connected with such an arrangement.

But it is no part of my duty in this address to enter further on the political details of practical pharmaceutical legislation. I desire to supply the materials of politics rather than to discuss politics. I have gathered together and furnished information, and have submitted arguments that should satisfy every Englishman that there is a serious breach in the established relationship of the State to one important branch of medicine by which the health and welfare of the State is maintained, that is, to pharmacy. I commend that information and those arguments for serious consideration by members of Parliament, by the press, and by the public. For myself, I have no manner of doubt that, could the attention of every thinking man in this nation be gained for one short hour to this present relationship of the State to pharmacy, he would vote for its reform in the direction now advocated.

Mr. James Keashaw (Southport) moved a vote of thanks to the President for his address. It was a thoughtful and suggestive treatment of a difficult subject, and he wished it could he in the hands of every member of Parliament. The Pharmacy Act had intended that the public should receive its drugs through, and only through, the educated hody it created. It had failed. One part of the cure is a correct diagnosis, which the President had very skilfully provided. All had their own ideas about the remedy. There was no doubt that many received relief from hospitals and dispensaries for whom it was not intended, as they were in no need of charity. They ought to agitate that out-patients should not receive their medicine, but should he compelled to get it from a chemist.

Mr. Sykes (Southport) had much pleasure in seconding the vote of thanks to the President. He had listened to the address with the utmost pleasure and enthusiasm. It did not refer to what had yet to be done in Parliament, but he boped they would not rest till the law was altered.

Mr. John Moss (London) wished to support the vote. The President had got together facts never before collected, and had marshalled them as had never before been done. He had presented them in a form which seems impregnable, and all hoped that it could not be assailed from without.

Mr. S. R. ATKINS (Salishury) said the present was a very fitting converse to the Address of the President at Southampton. He then dealt with the relation of pharmacy to the State, or the collection, preservation, and distribution of drugs; now, the relation of the State to pharmacy in the distrihution only of drugs. The picture was painted in the most sombre tints, but it would be rash to say that it was not correct. He hoped that time would prove that it was darkest before day. Some parts of the difficulty were irremediable or beyond their cognisance. But, if the State demanded education, qualification, and registration, they were warranted in asking for official or professional protection. If the State required free trade, let it be free trade all round. He was glad the subject had been treated by a man of Professor Attfield's scientific standing. A lesser man would have been met with the taunt that he could not rise to higher

Mr. SAVAGE (Brighton) said that to obtain satisfactory legislation was difficult, because the legislators were supporters of the co-operative stores. It was almost impossible always to insist on full prices when a 133d. article could be bought next door for 9d. or 10d. Doctors in some places had plates on their windows, "Advice and medicine, 6d.; if visited at home, 1s.," which must be very distasteful to their brothren. He knew two brothers in husiness in the same town, one of whom kept a co-operative store, while the other offered to supply 20s. worth of drugs at 5 per cent. less than store list prices.

Dr. QUINLAN (Dublin) said the King's and Queen's College of Physicians of Ireland had been asked by the authorities to draw up an amended schedule of poisons. A committee did the work, and added a number of articles that were deadly poisons. The answer they received was that such an addition to the schedule would "interfere with the course of trade." In Ireland the co-operative stores do not compound; the public notices that no night bell is provided, and prefers the apothecary or pharmacist, as people take sick at night and on Sundays. The abuse of the hospital outpatient system was open and flagrant. He had seen children sent with the nurse; one nurse, with three children, gave the address of a man worth at least a thousand a year. He had seen a patient sent in a brougham that belonged to the family, and could fill an hour with accounts of similar cases. The prepared pills sent from America and London did great damage. The public would learn that a nice little sugar-coated pill relieved them, would use the prescription again, and would accidentally forget to call on their physician.

Mr. Young (Edinburgh) said that in Scotland pharmacists suffered or supposed they suffered less than in more Southern districts. This was due either to their self-reliance or to the increasing education of their medical men, who now dispensed much less than formerly.

Mr. FRAZER (Glasgow) wished to thank Professor Attfield for his collection of facts, which would help those who differed from him critically to have the matter clearly before them.

Dr. Symes (Liverpool), while thanking Professor Attack for his address, could not agree with all his deductions. His gloomy picture needed some high lights. It was the fashion to take medicine very largely, though not in the old forms. He hoped the case was not so bad but is could be set right.

Mr. SCHACHT (Clifton), in putting the vote of thanks to the meeting, regretted that the address, so able, perfect, and complete, appealing to their inner sense of right, had been addressed almost exclusively to pharmacists. They, as individuals, should take care to make it known. He had great confidence in the good sense of the public, but that good sense must be

Professor ATTFIELD, in reply to the vote, said he had deliberately obtruded himself on ground which might be thought more familiar to his audience than to himself, because he believed that the relations of pharmacy aud the State would he more usefully put before the public from his position than from that of a pharmaeist in practice.

The reading of the papers was then proceeded with.

SECOND REPORT ON THE DIFFERENCES BETWEEN THE ESSENTIAL OILS OF CINNAMON AND CASSIA.

By Alfred H. Jackson, B.Sc., M.P.S., F.C.S., Associate of the Owens College, Manchester.

In the first report it was shown that the relative density of cinnamon oil was 1.0097, whilst that of cassia was 1.0366; also that the specific refractive energy of cinnamon oil was *32102, whilst that of cassia was *28685.

Experiments were continued on the residue left after the removal of cinnamaldehyde, the principal constituent. After a laborious research, the author had to confess that he was not able to point out any substantial chemical differences between the two oils, or to hope for any such definite results as would justify the use of larger quantities of such expensive materials.

There was no discussion. Professor Attfield remarked that it was very discouraging to fail to obtain definite results after a laborious research. Still, the author's labours would make the road easier for his successors.

Mr. Greenish's paper was read by the Secretary, Mr. F. Baden bger.

REPORT ON THE BITTER PRINCIPLES OF NERIUM ORUM.

By H. G. Greenish, F.I.C.

THE author is a grantee of the British Pharmaceutic Conference, and reported progress made in the isolation f the bitter principles of the Nerium odorum, or sweet-ented oleander.

Dr. Dymock, of Bombay, had provided a supply the root.

It was exhausted by treatment with water, and the bitter constituents separated by shaking with chlorofor and purified by agitation with water made alkaline with HO. (spatheto

The resulting yellow substance was separated by sution the in warm spirit and crystallisation into a white cryallinebody, and a yellow amorphous mass.

One of the substances—the crystalline one—is paibly and allows identical with a crystalline substance, considered by the registration author to be a decomposition product of the bitte principles; the other—the amorphous—represents the neiderin in a state of greater purity. A further report on the will am of an be made, perhaps at the next Conference.

Professor ATTFIELD said he might explain that this was not 1 Coun- brained cillor Greenish nor Mr. Examiner Greenish, hut the son of the on ad the ball mass brother of the other. Two years ago Mr. Greenish published som nvesti-title alkal gations into the active principles of Nerium odorum, when he had tained in The two hitter principles in an amorphous form. One of these he d now will be seen obtained in crystals, and the other in a purer condition. For is the resulting meeting would award bim its thanks, coupled with the hope that would win hope continue his researches; and an expression of thanks to Dr. Dyok, of Bomhay, for his ever-ready help in anything that tended to rward. pharmaceutical research.

After a question from Mr. W. A. H. Naylor,

Mr. Sydney Plowman read a paper by Messrs. Dunstan and bort, giving, as he went on, short commeats on the bearing or meaning the results obtained. This plan is very helpful to an intelligent appropriation of a paper.

THE QUANTITATIVE SEPARATION OF STRYCHNIN AND BRUCINE.

By Wyndham R. Dunstan, Demonstrator of Chemist and F. W. Short, Assistant Demonstrator of Chemistr, n the Laboratories of the Pharmaceutical Society.

brucine which gives concordant quantitative results h been known hitherto. An examination of the solubility change salts of strychnine and brucine was therefore made, whithe the view of devising a direct method for the separation theanat two alkaloids. Among the salts prepared were the grocyanides of strychnine and brucine, which were obtaid in the first place by the double decomposition of the alkoidal sulphates and potassium ferrocyanide. These salts cered so considerably in their solubility that a full study wa nade of their properties and solubility under varying concions, an account of which is reserved for the future.

After a series of experiments the following 1 thod was devised for the quantitative separation of the all oids. Any quantity less than 0.2 gramme of the mixed alkalds is dissolved in about 10 cubic centimetres of a 5 per cer (by volume) solution of sulphuric acid (=0.5 c.c. H2SC, the solution is diluted to about 175 c.c. with water, anthen made up to 200 c.c. with a 5 per cent. solution of pot sium ferrocyanide. The liquid is transferred to a beaker, rred occasionally, and allowed to stand from three to six burs. The precipitate is filtered off and washed with ater acidulated with sulphuric acid (about 0.25 per cent.) atil the washings are free from bitterness. As the prec tate is liable to alteration upon drying it is decompos the addition of a strong solution of ammonium hydra the filter washed with the same liquid, and finally with coroform, a sufficient quantity of which is used to errely extract the alkaloid from its solution in ammonium hy ate. The chloroformic solution is then evaporated, an the analydrous strychnine weighed. From the filtrate and ashine the chloroformic solution is then evaporated, and the chloroformic solution is the chloroformic solution is the evaporated, and the chloroformic solution is the chloroformic solution in the chloroformic solution is the chlorofor ings the brucine is extracted by chloroform aft, the addition of excess of ammonium hydrate; in or ary practice, however, either the bracine or strychnine ny be estimated by difference.

Professor ATTFIELD remarked that the authors had made a most inch advance in our knowledge of strychnine and brucine, and had reliable reactions for their separatiou. He called on Mr. Plowman the second percent by the se the second paper by the same gentlemen.

R)RT UPON THE PHARMACEUTICAL PREPARATIONS OF NUX-VOMICA.—I. ON TINCTURE OF NUX-VOMICA.

b Vyndham R. Dunstan, Demonstrator of Chemistry, and F. W. Short, Assistant-Demonstrator of Chemistry, in the Laboratories of the Pharmaceutical Society.

THE specimens of the tincture of nux-vomica of the R sh Pharmacopæia were obtained from the principal mufacturers in London, and they were subjected to analysis. Wa tincture of nux-vomica is evaporated a resinous mass re ins, which will be found to be only partially dissolved buloroform, the greater portion remaining insoluble. It is actically impossible to wholly extract the alkaloid from thouse by the use of chloroform alone. There are two w in which the alkaloid may be isolated from it. (1) By t ment with ammonium hydrate, which dissolves the reous mass and allows the alkaloid to be easily extracted by ne or two agitations with chloroform. The chlorofoic solution is extracted by shaking with dilute sulphuric acand the alkaloid extracted from this liquid after the ad ion of excess of ammonium hydrate by chloroform. This bloroform is then evaporated and the residue dried at I(C. (2) By treatment with dilute sulphuric acid, which erely dissolves the mass, and after the addition of amm um hydrate the alkaloid can be extracted in the pure st by chloroform. These processes both yield finally the sa result, as will be seen from the following figures, which re sent the percentage of alkaloid found in a specimen of ti ure analysed in both the above ways:

table of the results shows that the specific gravity of thincture varied from 0.8552 to 0.8377; the percentage of tal alkaloid from 0.360 to 0.124, but not always in the specific gravity. In the sample with the specific gravity. In the sample with the forward of total alkaloid was 0.; where the percentage of total alkaloid was 0.360 the spic gravity was 0.8450. Two other columns show the pentages of strychnine and brucine in the tincture, which by means correspond to specific gravity or total alkaloidal stigth.

will be seen from these results that the tinctures of u.vomica now in commerce vary to a very considerable exit in alkaloidal strength. The strongest tincture onining nearly three times as much total alkaloid as the west. It will be at once conceded that the impont feature in a typical tincture of nux-vomica is or sh d be uniformity in alkaloidal strength; the other const ents, though doubtless valuable, are of secondary import-It directly follows (1) that a standard of uniformity shid be officially recognised; (2) that the pharmacist shid be able to prepare and guarantee the tincture of stlard strength. This accomplished, the pharmacist, hang determined the amount of total alkaloid contained in e seeds from which the tincture is to be prepared, empla sufficient quantity to produce by a process of complete exustion the standard tincture.

lessor Attrieth proposed a vote of thanks to the authors. They hattacked the tough subject of nux-vomica; had first devised an indicate apparatus for extracting all the active principles, had next discorded a method for separating and separately estimating these principles, anyere now applying their physical and chemical researches to the physical preparations. This was valuable pharmacentical service.

w. A. H. NAYLOn said it would be remembered that Mr. Siebold had to paper on this subject before the Conference, and had suggested that the tract of nux-vomica should be used in preparing the tincture. This subject before the conference, and had suggested that the tract of nux-vomica should be used in preparing the tincture. This subject is the conference of the of nux-vomica up to standard should not be speedily adopted. No subject that the subject is the subject in the subject is the first time the kaloids had been separated the physiological action of pure brucine will be subject in the strength of tincture of nux-to-a was due, first, to insufficiently minute division of the seeds, which we is very great importance, and, secondly, to overheating the seeds in the costs of drying. He had seen this carried so far as to destroy the all-ids.

F. Baden Benger said Mr. Siebold had decided that nux-vomica std yield 9 per cent. of extract. Mr. Siebold had found that the hed inctures were three times stronger than the weakest—a conclusion of med by the authors by an entirely different method. Mr. Siebold hased as standards of comparison the hitterness and the opalescence produl on mixing with water. If the alkaloids were the only active inclients in the tincture it would be much better to use them.

Mr. E. M. Holmes said that the variation of the strength of tincture of nux-vomica was very important. Professor Bentley had once been nearly poisoned by taking a tincture stronger than he thought. The Bombay nux-vomica was nearly twice as strong as the other varieties, but it was almost impossible to obtain it regularly, and unmixed with the others.

Mr. Tanner said his experience of making the tincture from the extract of nux-vomica was unsatisfactory. A large quantity of spirit was needed to exhanst the seeds, there was much loss on evaporation to an extract, and the latter would not entirely redissolve in spirit owing to the separation of fixed oil. Further, the tincture thus made deposited after a time a brown resin.

Mr. Conroy remarked that it was strange to find that the specific gravity of the tinctures to a certain extent did not correspond with their strength. It seemed to indicate that rectified spirit was not the hest menstruum, hnt that a weaker spirit softened the tissues more.

Mr. ABRAHAM said a weaker spirit was used formerly in English pharmacopoeias, and still is on the Continent. It was undouhtedly a hetter mentrum.

Mr. Jackson said he had a note to the effect that a spirit of the sp. gr. 0.97 was a much hetter menstraum than that of the usual strength. Samples of hracine, alleged to be pure, were exhibited at the Vienna Pharmaceutical Exhibition, and it would he interesting to know how they were prepared.

Mr. Whitely Williams said that Mr. Shenstone had come to the conclusion that no precipitation process for the separation of strychnine and hrucine could be satisfactory. A very pure solution of alkaloid could be titrated with the iodide of potassium and mcrenry precipitant, but the presence of peptones and other organic matters prevented this.

Mr. REYNOLDS congratulated Dr. Attfield on heing the chief of the school which sent in this valuable contribution. As in many other cases the bye-products seemed more valuable than the staples. It was a pity that there were not more schools where such bye-products were produced. The inclusion of pharmacy in the curriculum of Owens College, Manchester, seemed to promise that the number would be increased.

Mr. Plowman replied to some lemarks caused by misapprehension of the author's meaning.

Professor Attrield thanked Mr. Reynolds for his allusion. The Council of the Pharmacentical Society had always enconraged such researches, and the School of Pharmacy Students' Association had done good service in promoting original work. He was proud to find men like Stanford, Jackson, Naylor, Greenish, Duncan, and Short doing work which commended itself to the Conference.

Professor Quinlan then read his two papers in a style which loses all its sparkle on condensation. Our report is as little like the original as dried herbs falling to powder are like the living plants.

THE PRESERVATION OF MEDICINAL HERBS BY ENSILAGE.

By F. J. B. Quinlan, M.D., M.R I.A., Professor of Materia Medica, Pharmaeology, and Therapeutics, Catholic University; Examiner in the same, Royal University of Ireland.

BOTH the practising and pharmaceutical branches of the medical profession are agreed as to the advantages of fresh medicinal herbs over the same substances in a dried condition, and a simple process which would supply fresh herbs all the year round has long been a desideratum. physician complains of the inferior physiological activity of the tincture made from the dried leaves: for example, tincture of hyoscyamus made from the fresh leaves will, if dropped into the eye, cause marked dilation of the pupil; whereas the tincture made from the dried leaves causes no such reaction. He knew an instance where such tincture was returned with a query whether it was not tincture of belladonna. The late Mr. Donovan, of Dublin, had a tincture of digitalis which was much relied on. In making this tincture he brought the alcohol to where the foxglove was growing, took the plant from the ground, bruised it, and plunged it in the spirit. He maintained that tinctures, to use his own words, "should be made from the live plant." The author doubted if ethylic alcohol extracted the virtues of all herbs; said that the manufacture of black drop had been revived in Dublin; wished that glycerine alcohol had been ordered for the preservation of succus; and stated that green extracts strictly P.B. would not keep through the winter. A supply of herbs preserved in a practically fresh condition throughout the year would therefore be very valuable.

Various silos were prepared in the pharmaceutical laboratory of Dr. John Evans, Apothecary to the Queen and to the Prince of Wales, with whom the author was in telephonic communication. The herbs in a perfectly fresh state were bruised to a pulp in a mortar, and placed in glass bottles, well tamped down; the stopper was force in so as to exclude every particle of air, and the top encased in beeswax softened by heat. The bottles were buried in the ground at a depth of three feet; and so treated, belladonna, conium, and other herbs kept for four months perfectly sweet and fit for pharmaceutical purposes. The bottled herbs would probably keep for six or even eight months, or perhaps longer. Now and then a bottle will fail from imperfect manipulation; but the failure is at once rendered evident by the spots of mildew appearing in the vegetable.

The factors of the decomposition of vegetables were the putrefactive germs contained in the air, the actinic rays of the sun, heat, and moisture; and their comparative influence

was shown by some experiments.

Ensilage is indispensable for medicinal herbs which must be used in the fresh state, such as *Galium Aparine*, which is now much employed as a dressing for uteers and cancers. It is bruised fresh, made into a kind of poultice, and placed upon the sore.

An ensilage bottle once opened, like a bottle of claret, must immediately be made use of.

The samples of siloed drugs shown had, he regretted to say, been taken out of the ground on Sunday.

The President remarked that this paper had raised several debateable points—drie1 herbs, ethics of substitution, variation of tinctures, and the best menstruum for them; in fact, it was boiling over with original excellence. He thought the discussion must be kept closely to the subject.

Mr. Ekin said the suggested method neight be very useful. But the question of temperature was immensely important pharmaceutically. From elaborate agricultural experiments it had been ascertained that unless the temperature of every part of a silo was raised by fermentation above 50° C., which sterilised the germs in the included air, the whole process was a failure. Air filtered from germs might be admitted; exposure to sunlight seemed of little importance: the essential point was the uniform elevation of temperature. This alone was sufficient to prejudice the odours and delicate principles of some drugs.

Mr. Symes thought the process could hardly be described as ensilage. In the latter the presence of air and development of fermentation were essential. He suggested that one bottle should be placed under an air pump with means of replacing the stopper. He thought that burying had no advantage over keeping in a cool dark place.

Mr. STANFORD remarked that as ricultural ensilage distinctly altered the flavour and character of the vegetable substance, and thought the medicinal character of the herbs would be modified, siloed herbs were as different from fresh as sauer kraut from cabbage.

Mr. Plowman said that although the subject was wide of the discussion, he would be glad to know if Dr. Quinlan had personal experience of the mydriatic action of tincture of the fresh leaves of hyoscyamus. It was difficult to helieve that this power could be destroyed by careful drying.

Mr. Mason asked if the same lot of leaves was used for making the tincture from the fresh, and afterwards from the dried, leaves.

Mr. Willimott said he had found a temperature higher than that mentioned by Mr. Ekin required to be continued for some time to destroy the germs.

Dr. Quinlan, in reply, said he had merely wished to ventilate the subject, and to have the advantage and the practical suggestions of the Conference to enable him to carry out a further series of experiments. He had witnessed the operations of ensilage in Belgium, where, after tamping the vegetable material in a pit, a trier tube was pushed into the mass, and the temperature was taken at intervals in it. When a certain temperature was reached they knew that the silo was "done," and closed it in. Mr. Symcs' idea was valuable, and should be carried out. Mr. Stanford's question he could not even approach. It touched the keystone of the arcb, and if the keystone dropped out the arch would go. If it should go in Ireland he would be the first to report it. As regards the tinctures of hyoscyamus, both samples were from Dr. Evans' establishment, but he could not give their history more fully than he had done. He thought it probable that some medicinal herbs would be found to silo much better than others.

THE MULLEIN PLANT.

By F. J. B. Quinlan, M.D., M.R.I.A.

This drug in the early stages of pulmonary consumption has a distinct weight-increasing and curative power, similar to that of cod-liver oil or of Russian koumiss; and is superior to either in the point of view of comfort to the patient. The species used was the great mullein, the Verbaseum thapsus of the botanist, and the "cuineal mhuire" of the ancient Irish medical writers. In Ireland it has been always carefully cultivated, and in many places upon a very large scale, in obedience to a steady demand by phthisical

sufferers. One grower has twelve acres of it. It in most of the medical establishments in Duly and throughout Ireland, and it is seldom that you will find at altery Irish newspaper in whose advertising columns offered. The only officinal preparations of it are effuice extract of the leaves and the same of the root.

The old Irish method of administering it was a take 4 oz. of the fresh leaves, or a corresponding quanti of the dry, and place them in a pint of fresh cow's milk. his was now boiled for ten minutes, strained, a little suga added a siste and the mullein milk drunk while still warm. The is still withher the best method. The superiority of the fres leaver the is very marked; and the dose ought to be take twice the or three times a day. When the leaves are not avaible the will next best rescurce is the juice fortified with a lit; spirit mention or glycerine or fluid extract of the leaves. In cases here some property much milk decoction is found to be heavy, it is necessary to such first peptonise the milk with pancreatic fluid and add with pinch of sodium bicarbonate. The mullein decoct a mad with the with peptonised milk digests at once, and the slig litter of ness of the peptone is completely covered by the tae of the amount mullein. In advanced cases of consumption the ulleining and although pewerless to cure, relieves the cough and arrhoughling

Young foxglove leaves may be mistaken for ve young tis a mullein.

Mr. HOLMES remarked that the leaves of the specimen exh el were less woolly than usual.

Mr. Mason said that they still had to learn that some the neighbour remedies were really new old medicines.

Mr. CONROY asked if the cultivated mullein lost any of its tlapeutic was value, and if the milk and stout might not be credited with weighting increasing rower.

Mr. Wyatt said he had had a specimen of the mullein in his arden. Bootle, and had to exercise extraordinary vigilance to save it stolen. It went at last. He found that the Irish population trepiz it very highly, and were always legging for his plant. An I wome said to him, "It was not such an ugly plant after all; it always had or bright baby at the top of it." There was, in fact, always a sin open flowers round the spike.

Mr. BORLAND remarked that Dr. James "Dispensatory," It recort affect mended the mullein for almost the same diseases it was no used Rel with though not as a substitute for cod-liver oil, which was then up wm. Rule a

Mr. Willmott asked where the multin could be obtained and whomever form could be recommended for hospital use.

Mr. ATKINS asked if the plant were a popular remedy in Ind. Taken idea of investigating popular remedies was suggested at the letter of the conference.

Professor Q Inlan, in reply, said the milk and stout objectional behalf raised over and over again, but had been disproved by special extinct the use of the plant had been kept alive by the poor Irisb. The was too large to be met by the wild plant, and the price was badden a plant. The only good preparation was the decoction in the Patients disliked the decoction in water.

When the Conference assembled on Wednesday prointing Professor Atticld announced the death of John Henr Lind Atherton, local secretary to the Conference at Notinghar and main organiser of the first Pharmaceutical Exhi

Mr. Naylor then gave the leading points of his par.

ADDITIONAL NOTES ON THE BITTER PRINCIPI OF HYMENODICTYON EXCELSUM.

By W. A. H. Naylor, F. C. S.

In continuation of his previous researches the autor had an prepared larger quantities of the alkaloid he had disperse in the dried bark.

The conclusion to be drawn from his results ap us to the bethat the bitterness of the dried bark of Hymen experience is due in part, if not in the main, to the excelsum is due in part, if not in the main, to the excelsum is due in part, if not in the main, to the excelsum is due in part, if not in the main, to the excelsum is due in part, if not in the main, to the excelsum is due in part, if not in the main, to the excelsum is due in part, if not in the main, to the excelsum is due in part, if not in the main, to the excelsum is majority to the due to the neutral principle having the complete ition as a substance of which it may be a principle decomposition.

Professor Attrield hoped that the salts which refused to stallis would consider their position and succumb to the author's installistic continuous succumb.

Mr. DOTT, Mr. WHITELEY WILLIAMS, and Mr. Moss asked quea is.
Mr. HOLMES asked if the author's results threw any light on

titut of quinine, as both alkaloids were obtained from plants of the same rai order.

Mr. ring briefly replied. Most of the questions were answered by

EXPLMENTAL REMARKS CONCERNING THE OINTMENT BASES.

By W. Willmott.

MI. V.LMOTT read an abstract of his paper: There are, perbs no remedies, whether external or internal, which, phan scutically, will better repay any extra time or attention toted to them than ointments; and yet practically there; none which, until within a comparatively recent date, be been so systematically neglected.

The ecial points in a properly prepared unguent are—

from bility to rancidity.

The thor's experiments were chiefly directed to noting the Hility to rancidity of various bases and ointments. lard prepared in various ways: (1) simple melting and thin; (2) washing and straining, as P. B.; (3) Mr. Rdwa Smith's, washing and filtering. Ewen's lard is juvarily washed, and is a white, smooth, and most excelent duct. Samples of bladder lard, Ewen's pharmacentic and the same filtered turned rancid within eighteen montl Ewen's benzoated within five years; flare melted and kined, melted and filtered, remained good after thirte months; washed and strained P. B. was rancid; washe and filtered was slightly raneid after the same period Experiments were then made with "flare" premed: in the last four cases. Ung. hyd. ox. rub., plumb. grb, d zinc were prepared and examined at one, three, and theen months. Each sample of lard was thus observe ine times. The ointment made with flare melted and st ned was found good on five occasions; each of the other ly once. Simple melting and straining is therefore the be process for the preparation of lard.

Anture of oil and wax ean be prepared of any consisten. Oil with white wax is liable to rancidity; oil with low wax makes a very permanent base. Sixteen cate and ointments we:e prepared with various proportions; white and yellow wax, with olive or almond oil, and, stmaceti, and vaseline. Seven that contained white wax n, good at the end of two years, but rancid at the end of of vy ears, but rancid at the end of of years, but rancid at the end of of years and yellow wax with good after the lapse of four years: a decisive most the superiority of yellow wax. The colour of the

latter nains unimpaired after many years.

The ineral hydrocarbons are recommended on the good at they are free from liability to oxidation. One inport drawback to vaseline, to which preference has brette been given, is its liability to develop a strong extola odour which is scarcely less objectionable than actual neidity. Melted with paraffin, white wax, or spermacet, nd especially with paraffin, or in the presence of ambors or acetate of lead, this odour is strongly develop. In combination, however, with yellow wax it is entire prevented. On the other hand, the palm must be award to vaseline for the retention or preservation of its

The periments with vaseline, fossiline, white ozokerine, and et ma cannot be summarised. Of mixtures of vaseline with affin, white and yellow wax and eetaceum, that with yow wax seems most permanent. All the mineral preparents are softer than is liked. They cannot be said to make the appearance of the pharmacist's stock. Not intreastly they produce granular, greenish-looking oily compose, which have nothing inviting about them. Fatth experiments with ung. simp., ung. plumbi acet., plumbi arb, and hyd. ox rub., with various mixtures of reseling and wax, white ozokerine and wax, and olive oil and we were after eight months decisive, so far as they were favour of ozokerine.

The jst important of the seven tables given in the paper as of detailing the condition of (1) ung. galle, (2) ung. 1916, orub., (3) ang. plumbi acet., (4) ung. plumbi carb., (5) wisulph., and (6) ung. zinci, after one, six, fourteen, went our, and forty-eight months had elapsed, each oint-until ing made with four specimens of laid (ordinary, harm-entical, filtered, and benzoated), oil and wax

(oil with white wax, with yellow wax, and with white wax and vaseline), and with petroleum jelly. Each basis was, therefore, under observation thirty times, five times for each ointment. Vaseline was perfect at the end of four years in three cases (1, 5, and 6), and at the end of two years in another (2); oil and yellow wax was perfect at the end of four years in No. 1 only, and at the end of two years in 3, 5, and 6; benzoated lard was perfect at the end of four years in 1 and 6, and at the end of two years in No. 5. The other bases were much inferior in permanence. Counting as one each time an ointment made with the base was found good, vaseline marks twenty-one. oil and vellow wax twenty, and benzoated lard eighteen, the other mixtures of oil and white wax mark only nine, and the lards only four. The change noted in vaseline was the development of a rank odour. Mixtures of petrol eum residues with lard and oil are by no means permanent. Directions were given for the manufacture of diachylon ointment with vaseline, Lister's boric ointment with paraffin, and for making eitrine ointment.

Professor Attrield thought the paper would lead to a very useful discussion; the summary was very clear, and other useful points would be found on reading the paper.

Mr. JOHN WILLIAMS asked if the ordinary white wax of commerce had been used. It was very different from true bleached wax, as it contained two parts of spermaceti to one of wax.

Mr. Willmott explained that he had used the ordinary pharmaceutical white wax that his experiments might represent the usual run of pharmacy Mr. Ward, of Leeds, asked if experiments had been made to see if the

various hydrocarbons had the same chemical composition.

Mr. Walter Hills asked if the author had made any experiments on bleaching yellow wax, and if an unpleasant odour was essential to white wax. A pleasant smelling white wax would be very useful.

Mr. Moss said that some of the author's conclusions with regard to vaseline combatted some he had reached by his own experiments. Some years ago he had made all the ointments of the Pharmacorotia with vaseline, and in no case had a petroleum odour appeared. It was possible that vaselino varied at times. Vaseline and ozokerine were simply hydrocarbons, and their great physical differences could only be accounted for by their different geographical source.

Mr. Naylor asked how the initial stage of rancidity had been ascertained. His own experiments with vaseline confirmed those of Mr. Moss, but they were made nearly at the same time and with the same sample. He had examined five or six of these petroleum bases, and found that they all contained hydrocarbons of the same series, though of different parts of the series.

Mr. Symes could, to some extent, confirm the author's results with vaseline. A sample he had exposed on his counter some years ago developed a strong acid but not petroleum odour. The genuiness of the sample was indoubted. He found that these hydrocarbons, mixed with lard, did tend to preserve them. Two classes were in the market—one obtained in the preparation of petroleum, which never crystallised, the other made by dissolving solid paraffin in lubricating oil. He hoped to have beard the results of experiments on the newly-snggested substitute for ointments—a compound of gelatine with a little glycerine. It answered admirably for active principles like chrysarobin.

Mr. Pickabl asked if there were any grounds for the presumption that white vaseline is purer than yellow.

Mr. Fraser said that true bleached wax was known in Scotland as dentists' wax, and was constantly used; it could be obtained from Barclay, of Regent Street.

Mr. Mason remarked that block wax was known in the market as Madras wax, was imported in its natural state, and needed no bleaching. For furniture polish it was absolutely necessary to have this kind, as bleached wax would not thicken. Complaints had often been made that vaseline stains the skin and linen. This does not always happen; but if a vaseline pomade is used, the colouring-matter of the hair seems to be extracted and stains the pillows. A lady in Paris with beautiful white hair used vaseline, which turned it a durty yellow.

Mr. Congoy said that, with regard to lard, the anthor's experience was entirely different from his own. He was in the babit of preparing very large quantities by filtration, with excellent results. The lard thus prepared would keep eighteen months, the careful filtration separating the decomposable constituents. By allowing lard to settle in an enamelled pan the water soon separates, and at 120° lard runs very rapidly through a fine filter, and even through paper if it be kept from the sides of the funnel. He had never noticed the petroleum odour in vaseline, though he had made and kept many ointments. But all hydrocarbons developed a rancid smell, more quickly if exposed to strong sunlight. One curious fact was that the hydrocarbon jellies often produced inflammation of tender skins. He had seen and heard of several cases.

Mr. Holmes had received from Mr. Jamie, of Sumatra, specimens of a fat produced from seeds which were not recognised at either Kew or the

British Museum, which never turns rancid, and makes a good ointment

Mr. ABRAHAM remarked that pure white wax was not used only in Scotland.

Mr. Fraser protested that he never meant to imply that. He was often mis-read. (Laughter.)

Mr. WARD asked if English or foreign yellow wax had been used in the experiments.

Mr. WOOLLEY said the whole question of the use of wax in ointmentmaking needed investigation. The purity of much of the Madras wax was not above suspicion. If the author had used white wax iu round flat cakes his results would need correction.

Mr. WHITELEY WILLIAMS remarked on the excellent keeping properties of kokum butter.

Mr. WILLMOTT briefly replied.

Professor Attrield suggested that there was room for research on the muterial separated from fats by filtration.

NOTE ON THE PROCESSES OF THE BRITISH AND UNITED STATES PHARMACOPŒIAS FOR THE DETERMINATION OF HYDROCYANIC ACID.

By Louis Siebold.

THE two processes differed in two essential points. In the first place, the conversion of the acid into a cyanide was effected in the B.P. process by means of sodium hydrate, while the U.S.P. directed the use of magnesia suspended in water. According to the B.P. the decinormal solution of silver nitrate was to be added until a permanent precipitate of silver cyanide just began to form, or in other words, until the whole of the sodium cyanide had been converted into the soluble double salt NaAgCy2. The process of the United States Pharmacopœia directed the addition of the silver nitrate solution until the soluble double cyanide (in this ease MgAg₂Cy₄) was completely decomposed, or until the whole of the cyanogen present had been precipitated as silver cyanide. As this process was conducted in the presence of a small quantity of neutral potassium chromate, the end of the reaction was distinctly indicated by a red coloration, due to the formation of silver chromate. This process required exactly twice as much silver nitrate solution as that of the British Pharmaeopæia; but, strange to say, this fact seemed to have been overlooked by the compilers of the United States Pharmacopæia. This serious error had been already pointed out by Mr. R. A. Cripps, in a paper read before the School of Pharmacy Students' Association. The process required a larger quantity of silver solution, which seemed an advantage rather than otherwise, for the larger the volume of a test solution required for the analysis of the same weight of substance, the greater must be the accuracy in the result, provided the method itself was free from inherent defects and was not inferior in the delicacy of its reactions. This method, if properly conducted, was thoroughly reliable, and certainly in nowise inferior to the process commonly used in this country. In the hands of inexperienced manipulators, it appeared the preferable one of the two. It required two precautions.

(1) Care must be taken that a sufficient amount of magnesia be used, for otherwise the results would be too low and entirely untrustworthy. An excess of magnesia, however, did not apparently affect the accuracy of the result.

(2) The magnesia used must be free from chlorides, and the hydrocyanic acid free from hydrochloric acid; otherwise the results would be too high.

Mr. SIEBOLD had noticed a powerful action of prissic acid on carhonates in the presence of silver nitrate, and thought the process might be used in the estimation of the alkaline earths perhaps in the presence of alkalies.

The PRESIDENT said that Mr. Cripps had intended to pursue his researches, but might think he need not do so, as the matter was already in such excellent hands.

Mr. John Williams said he had for many years paid attention to the question. He had always considered Liebig's and the Pharmacopeeia test a great advance because hydrochloric acid does not interfere with it. He thought the new United States Pharmacopæia process was a distinct retrogression. The prussic acid of commerce did and must contain a preservative, which was generally hydrochloric acid. Otherwise it would continue to change, because there was ammonia in the air and alkali in the glass. The British Pharmacopæia test was, therefore, perfect, so far as it went. A preservative was absolutely necessary, and hydrochloric acid was better than glycerine.

Mr. Dorr said that in estimating hydrochloric in the presence of prussic acid it was not necessary to hoil the latter, as silver chloride was soluble in ammonia, while silver cyanide was not.

Mr. NAYLOR had ahandoned Liehig's process for Hannay in while III solution of mercuric chloride was used. The only objection it was fit Ho instability of the volumetric solution.

Mr. Schacht systematically tested prussic acid hefore ping it in the late dispensing hottle, and much preferred the P.B. process. A unte par il INPERIOR of a drop was always enough to show the end of the ption. chlorides it was not so : the deposition of the precipitate quires tighich though the method might be as correct. He had always in careft might keep his solution alkaliue.

Mr. TANNER could corroborate Mr. Schacht. He had anys four the difficulty in determining the end of the reaction of chlor with a nitrate with chromate as indicator. It seemed to requirime, w

with Liebig's method the end was always sharply define 1. Mr. ABRAHAM had found that excess of alkali within uson cid

affect the accuracy of Liehig's method. Mr. WHITELEY WILLIAMS said that alkaline bicarhonates ight be

in enormous excess without injurious effect. Mr. Symes thought that if Messrs. Tanner and Ahraham h started in the land of only a small excess of alkali their results would have been derent. An loves

Mr. SIEBOLD, in reply, said he fully agreed with Mr. Illiams, he with would not eliminate the B.P. process for that given in the .S. Phageined copæia. His object was simply to examine critically heir religious accuracy. He preferred the British process, but thought these of declared the quantity of decinormal solution was an advantage for e Amerand of With regard to Liehig's process, although excess of alkali di nfluenc result, it was only to a small and inappreciable extent. I difficult observing the indication of chromates with silver solution ight be to varying sensibility of the eye to colour. It might be we to use different methods to check results, especially if the same vemetric tion could be used. It might he tried once with soda a once magnesia. Excess of soda was harmful, while magnesia cou not be ?

IODINE IN COD-LIVER OIL.

By Edward C. C. Stanford, F.C.S.

"IT is proposed to verify the statement in Garroo Mat Medica' that cod-liver oil contains 0 05 per cent iodily below See "Blue List."

If this statement were true, cod-liver oil woulde one the richest sources of iodine with which we are quain month The average yield from laminaria drift on the law scale 0.025 per cent.: but many thousands of tons seaw have been made into kelp and worked for iodine nich h. Middel yielded not more than 0 005 per cent., and son even who are than this.

Most of the published analyses of cod-liver oil re manufacture too high in the amount of iodine found. The excitions the results obtained by Mr. Mitchell Bird, which re m mean nearer the truth. The method of analysis adop is to used for kelp.

The specimens of cod-liver oil experimented were tained from their former President, Mr. Reynos; 5 grains of each were taken, saponified with 1,00 grains caustic soda, pure and free from iodine, then carnised a large porcelain crucible; the resulting charcoal as her with hot water and made up to 5,000 grains mease. C tenth of this, or 500 grains, was found quite sicient detect the presence of iodine and to estimate it. Chree periments were made, taking 500 grains, 2,500 hins, 1,000 grains respectively, with pretty concordant sults.

The following six speeimens were selected:-(1) Cod liver oil, pale; (2) Norway; (3) manfactu by Carr & Sons, Berwick-on-Tweed; (4) English (5) N foundland; (6) light brown.

The mean proportions of iodine found were per nt.:-(1) 0.000410; (2) 0.000434; (3) 0.000276; (4) 0001 Mean percentage iodi (5) 0.000315; (6) 0.000360. 0.000322.

The herring contains four times the amount f iod contained in the codfish, and more than in a of samples of cod-liver oil; if, therefore, the iod be medicinal clement, Scotch herring salted should reco mended; it is very cheap at present.

The subject was becoming interesting, and, ind l, alan ing to the iodine-maker.

The PRESIDENT said it was peculiarly satisfactory that so linent authority as Mr. Stanford had taken up this question.

Mr. Ekin remarked that with regard to the starch test for ine, wh the author had somewhat condemned, his own experim and author's were not necessarily antagonistic. His had been died to detection of minnte quantities of nitrites in potable waters, time been found au important element. iodid

Mr. STANFORD, in reply, said that in testing for nitrites starch was very delicate, but not in the analysis of kelp.

ON THE TREES YIELDING BENZOIN.

Bu E. M. Holmes, F.L.S.

THE Poin which enters into English commerce includes out eties, named respectively Sumatra, Palembang, Penar and Siam benzoin. These exhibit certain characteristi ppearances by which they are easily recognised, and thee them are probably derived from three distinct watts the botanical source of Sumatra benzoin was determinto y Dryander, but the trees which yield the other maniet have as yet never been identified with certainty.

The ste of our knowledge of Siam benzoin being thus he had written to Mr. R. Jamie, of Singapore, and h received from him a box of specimens for the Museu of this Society, containing amongst other interestme at aluable donations sections of the trunk of the Siam henzo tree, and herbarium specimens of the leaves, but infort stely neither flowers nor fruit; also specimens of he Sn tra benzoin tree with leaves, flowers, and fruit. In diti to these specimens he has contributed some intered ig information.

The im is a considerable article of traffic, in fact a nanop, fetching a good price in the Bangkok market. It suse zenerally for fumigating sick-rooms and making wenter ater. Large quantities generally find their way to Rangk being brought overland on oxen to Sawaryaloke, hichand other Siamese provinces, and are exported to Europey several mercantile firms.

Som eautiful specimens were exhibited and the disfactio between the two plants were pointed out.

There is no discussion.

THE P. IDENT drew the attention of the meeting to a specimen of staltura yellow wax. A cake of inferior quality had heen neatly coated

Attheorement for luncheon the members of the Conference were thotogned in a group.

SME OIL. REPORT ON ITS SUITABILITY FOR PHARMACEUTICAL PURPOSES.

By Michael Conroy, F.C.S.

In cused was from a reliable source. It was a pale, rellow coloured oil of sp. gr. 921, possessing a bland, weet, t-like taste, with neutral reaction. Concentrated mphu acid converted it into a deep brownish-red jelly. headion of 2 per cent. of a cooled mixture, in equal parts, strong nitric and sulphuric acids caused it to muire deep-green colour, rapidly changing into deep hown and to other well-known tests it answered equally atisfacily.

nonexperiments which were detailed it was very ridentiat this oil could not replace olive for the chief ratical uses, since plaster made with it would not suffintly to be portable, either in the form of rolls or as ad for use; neither can it satisfactorily be used in limiliniment, because of its tendency to separate. lime of ammonia made with it is a little thinner than nese defects are undoubtedly due to the large undoubt oil, and consequently portion of the more solid glycerides; and it is what these defects are what chiefly recomrenderie oil to the authors of the "Pharmacographia," mely he 'larger proportion of olein and consequent set tlency to solidify.''

Whenowever, no chemical combination takes place, and ply a bland sweet oil, possessing good keeping ropert, is required as an ointment basis, perhaps no etter ild be chosen, and on this account the author uside lit much more suitable as a substitute for almond preparation of ointments. Samples of the prininal or contained in the British Pharmacopæia had been spare and were on the table, which were quite equal in

First rect to those prepared with almond oil.

OIL: ITS SUITABILITY FOR PHARMACEUTICAL PURPOSES.

y Thomas Maben, Pharmaceutical Chemist.

HE au)r finds that sesame oil is very suitable for preparg the asters of the British Pharmacopæia. Lead plaster made more adhesive than that prepared from olive oil

and does not become so friable, but a larger proportion of lead oxide is required. Adhesive plaster requires less resin and is consequently less irritating to inflamed surfaces, and belladonna and other plasters which are frequently kept ready spread do not crack so readily when lead plaster made from sesame oil is the basis.

With the exception of ungt. hydrarzyri nitratis, the ointments of the British Pharmacopæia can also be very successfully prepared by substituting sesame oil for olive and almond oils. In the case of the exception referred to a peculiar principle, common to most seed oils, has a reducing action on the mercurial salts, with the result that the ointment becomes discoloured and unfit for use in the course of a few weeks.

These two papers were read together that the discussion might be taken on both.

The Paesident remarked that Mr. Conroy's objection might be met hy Mr. Mahen's well-taken suggestion to use more base.

Mr. WILMOTT suggested that more time should be allowed in experiments

with ointments to see if the results remained the same.

Mr. TANNER had found that lead plaster made with sesame oil was too soft, excessively sticky, and wanted firmness. Its odour was very disagreeable, entirely different from that of lead plaster made with olive oil. When spread, rancidity appeared in a very few days. Large batches had become so hot in twenty-four hours that it had seemed dangerous to pack it. Citrine ointment made with it was orange coloured changing to red. In ammonia liniment it seemed an improvement.

Mr. Conroy had experimented with larger quantities of lead oxide, hut the result was the same, and was apparently due to want of palmitic acid. The rancidity mentioned by Mr. Tanner was probably due to want of consistence and the red colonr to the presence of the seed oil. Seed oils turned red with nitric acid.

THE STATE OF COMBINATION IN WHICH MORPHIA EXISTS IN OPIUM.

By D. B. Dott.

THE facts which render it almost certain that morphia exists in opium both as sulphate and meconate are briefly as follows :-

1st. An aqueous extract of opium contains sulphuric acid in sufficient quantity to combine with the whole of the morphia.

2nd. The same extract contains meconic acid in quantity insufficient to convert all the morphia into meconate.

3rd. The extract contains inorganic and organic bases, with which the sulphuric acid will unite in preference to the morphia; and the remainder of the sulphuric acid will not suffice to combine with all the morphia.

Seeing then that the sulphuric acid which is free to combine with the morphia is insufficient to unite with the whole of the alkaloid, it is evident that part of the morphia must exist as meconate.

There was no discussion

SWEET SPIRIT OF NITRE.

By Alfred Clay Abraham, F.C.S.

AFTER mentioning some points in the history of the preparation, the author proceeded to discuss the Pharmacopæia process devised by Professor Redwood. He believed that the moderate action and constant temperature was due, not to the formation of nitrous acid, but rather to the action of the sulphuric acid upon nitrate of copper; or to the increase of the boiling-point by the admixture of sulphuric acid.

Nitrate of copper was first prepared with excess of acid and then distilled with sulphuric acid and rectified spirit.

The product was 4 fl. oz. more than the British Pharmacopceia directs, and 3 to 4 per cent. of ethereal fluid separated

on application of the Pharmacopæia test.

Another experiment was tried, with a smaller quantity of nitric acid, equal to the B.P. quantity. The product separated nothing with solutions of chloride of calcium. No. 1 had only one advantage over the Pharmacopæia, viz, the greater regularity of its distillation, and required the use of much more copper, and twice as much nitric acid. Some base was sought which would be cheap, constant in composition, easily dccomposed at the required temperature by the sulphuric acid, and exist either in the state of nitrate in commerce, or in that of some compound which could be converted into a nitrate without loss of nitric acid.

Calcium was tried, calcium carbonate being used in place of copper in the Pharmacopæial process.

The distillation proceeded with great regularity from the beginning to the end; the product was $86\frac{1}{2}$ fl. oz. of a liquid of specific gravity 8453 at 601° F., and separated 3 to 4 per cent. by the chloride of calcium test.

The first $82\frac{1}{5}$ fl. oz. were tested and found only to separate about 1 per cent., but the remaining 4 fl. oz. of product raised

it to the strength named.

Another lot was tried with a third less spirit added to the sulphuric acid. The product was 87½ fl. oz., sp. gr. 8463, and 3 to 4 per cent. of ethereal fluid separated. The distillation occupied less than an hour.

To test the idea that the sulphuric acid might so raise the boiling-point of the mixture of nitric acid and spirit as to reach the temperature necessary for the formation of the nitrate of ethyl, another experiment was tried with Pharmacopæial proportions, omitting the copper. The product, perhaps through some neglect, was not satisfactory.

Samples made by the B.P. process, and by the same with the substitution of chalk for copper, have been kept seven months without deterioration in bottles, not full, exposed to bright light in a warm room, and, moreover, have had a number of small samples taken from them, as would be the case in discensing. The advantages of the process suggested are:—(1) The product is 5 per cent. greater; (2) the cost is less; (3) the process is more analogous to the old one; (4) occupies much less time; (5) the distillation is much more regular; (6) the proportion to be distilled is one-third less. Advantages 4, 5, and 6 recommend it as a manufacturing

One thing at least seems perfectly clear, viz., that the success of the P.B. process is not due to the formation of nitrous acid, but to the increased boiling-point resulting from the presence of the sulphuric acid, which is gradually eliminated as the distillation proceeds by its action upon the copper, or upon nitrate of copper, and thus maintains a proper equilibrium.

The PRESIDENT hoped the discussion would be condensed, bearing in mind that at present it was not known whether in sweet spirit of nitre we had a solution of nitrous ether or of aldehyde in alcohol, or of other things or a combination. Its properties have never been investigated by therapeutists. No tests at present devised gave the needed information. We could prove the presence of a nitrite of something and of aldehyde, hut neither could be estimated quantitatively. A process had recently been published for estimating nitrous ether hy liberating nitric oxide gas and measuring it. If it yielded good results, it might enable us to talk more definitely about the chameleou of pharmacy.

Mr. WILLIAMS thought there was no possibility of getting a definite result by mixing several things in a retort and then distilling something out of it. He had condensed 10 per cent, pure nitrous ether in rectified spirit, and the result was not sweet spirit of nitre. He had condensed 10 per cent. of aldebyde in the same way, and again it was not sweet spirit of nitre. He had mixed the two, and neither of the three bad any resemblance to sweet spirit of nitre. He had thus proved what it was not. Again, aldehyde is so objectionable that it would spoil any sweet spirit of nitre in which it existed to an appreciable extent. But there had been recently introduced into the rapeutical use a polymeride of aldehyde, called paraldehyde. In it three volumes of alcohol bad been condensed into one. It had very powerful medicinal properties, and promised to be very useful. Its flavour was so much like that of sweet spirit of nitre that he was conwinced that this, mixed with nitrous ether, was the hidden thing so long sought after. When aldebyde was brought into contact with small quantities of acid, by some action not chemical, it is changed into paraldehyde. The experiment goes on very beantifully in a flask, and was very interesting. The very volatile, offensive aldehyde could be seen changing into the sweet paraldehyde, boiling at 116° F. Acetic acid and acetone were also formed.

Mr. Symes said that Mr. Williams' remarks were very suggestive. But there was a practical consideration which affected them all. If the best knowledge is so vague, it is very unfair that members of the Conference should have been mulcted for variations in a thing which could never be produced twice alike.

The PRESIDENT remarked that the eases referred to had been decided not on the B.P., but on the permanganate test.

Mr. Moss said that the Committee on the revision of the U.S. Pharmacopæia seemed to have adopted a test, and then to have devised a process to obtain something that would stand the test, but without having any definite ideas on the subject.

Mr. NAYLOR thought it was very desirable that in the coming Pharmacopæia Dr. Dupre's test should be adopted. A make of spirits of nitrous ether could be obtained yielding 3 per cent, hy this process.

Mr. WHITELEY WILLIAMS said that a considerable proportion of the

things giving the nitrous reaction were not ethyl nitrite at nitrous reaction were not ethyl nitrite at nitrous aldehydes.

Mr. Dorr said that an Edinburgh professor had traced to diure action of sp. eth. nit. to the nitrous constituent in the compoli.

Mr. ABRAHAM, in reply, said that he was extremely please hear h Williams' remarks. A week before he bad in private nversati and suggested the presence of paraldebyde in sweet spirit of nit But 8 its action was not sedative, like paraldehyde, hut diuret lt was question if it did not act by the liberation of nitric acid.

AN EXAMINATION OF SOME SAMPLES OF PI'H AN ASPHALT.

By E. Daries, F.I.C., F.C.S.

VERY little information could be found in books the refence to either pitch or asphalt. The author herefe collected samples of all kinds of pitch and asph, onta able. No attempt was made to analyse the organ matt in these varied products. They were no doubt ratures great complexity, and, so far as manufactured pitc was c cerned, of variable composition, according to the ht used their manufacture. As the object was mainly the lentif tion of the various commercial articles, only thasb, sulphur, and the amount soluble in petroleum s it sp. 700 were determined. The last of these determinations not admit of very great precision. In almost all samp there is a substance highly fluorescent, and ve sligh soluble in petroleum spirit, to completely remove hich v impracticable without such prolonged treatme as v inconvenient. The extraction was performed as llows Fifty grains of the sample, if possible in fine poder, allowed to stand an hour with 1 oz. of petroleum irit, a frequently agitated. It was then boiled for a sort time the solution decanted, and the residue boiled with successive half-ounces of petroleum spirit. All trisoluti were filtered through a weighed filter, upon bich residue was finally washed and dried at 100° C.

The sulphur was determined by fusing with trate potassium and carbonate of sodium, except in the cases which the substance would not powder. These we trea with a large excess of pure fuming nitric acid rst a gentle heat, and afterwards boiled, the solution large diluted with water, almost neutralised with mmor filtered and precipitated with chloride of baria. sulphur was determined in the part insoluble in trole spirit in one of the Syrian asphalts, and in the ash (Trinic

pitch and Val de Travers asphalt.

A description of the source and properties of ch ki was given in the paper, and the accompanying tele gi the results of the investigation for comparison:-

Description	Soln- ble in Petro- leum Spirit	Insolu- ble	Ash	Sul- phur	Or- ganic matter soluble in P. S.	g ic ir lu b ir 13.	ori			
Coal tar pitch, No. 1 , No. 2 , No. 3 Rosin pitch Stockholm pitch Stearine pitch Trinidad pitch Fine Syrian Low Syrian Low Syrian Low Syrian Vanerican, No. 1 , No. 2 Val de Travers Burguudy pitch	24°14 18°70 15°86 86°94 91°46 71°05 36°24 48°16 49°68 65°64 63°62 9°76 99°01	75°56 81°80 84°14 13°06 8°54 28°95 63°76 51°84 50°32 34°36 36°38 90°24 °96	20 1-(6 -43 -8 -84 5-50 37-76 -68 2-64 -60 -26 90-24 -14	69 '41 '59 '26 '015 '04 3'47 6'13 5'65 '62 '85 '41 none	24·49 18·90 15·94 87·45 92·23 75·18 58·22 48·49 51·02 66·03 63·78 100·00 99·18	7 1 8 0 8 6 1 5 7 2 2 4 8 5 1 4 8 3 7 3 7 3 2 n ≥	5 6 5			

The PRES DENT said that some samples of asphalt were kn(1) to co tain nearly 100 per eent. of combustible matter, and during months some alarm had been expressed in the public press abou srelati to fire. It had been suggested that the use of asphalt paving troof provided a ready means of setting fire to a whole town. It ot t, the fore, to go forth to the public that the asphalt so used consist of or 10 per cent. of comhusible matter. To set light to it would be difficu as to set light to a mixture of 1 part of gunpowder and 9 of san

Mr. Connoy said that chemists would not buy genuine Burgo ; pitch Mr. Holmes knew a gentleman who got Burgundy pitch whever could, which was not often. It was less irritating, and was p red l customers.

CONTIUTION TO THE PHARMACY OF THE POMEGRANATE. By Louis Siehold

THE : 10r wished to obtain, by a comparatively simple pharmaceutical preparation of this bark, which. shile sessing the full activity of the drug, is at the same time f from the nauseous taste and the unpleasant effects which ise its rejection by the stomach. The details of

the pr ss finally adopted are as follows :-

Six ices of the coarsely-powdered root-bark are digested here ressive times with 48 fl. oz. of water at 160° Fahr. nevio vacidified with a few drops of acetic acid, each about twelve hours, during which the mixture should frequently agitated and the temperature maintained or near the point given. The strained infusions. gin all nearly 140 fl. oz, are united, and gradually mixed th solution of sugar of lead until no further predipitat; formed on testing filtered portions; the whole is then fired, the slight excess of lead removed from the Strate's current of washed sulpharatted hydrogen, the mixtur armed for some time to expel the excess of the gas and ag filtered, and the perfectly-clear liquor evaporated maw'r bath to the consistence of a syrup, at a temperahre no xceeding 140° Fahr. Evaporation in vacuo would what be better still; but this had not been tried. Finally, hesm quantity of residue left is mixed with syrup of mage el sufficient to produce a draught of about 2 fl. oz. his dight represents a dose for an adult, and should be aken once, first thing in the morning, and the patient thair; from food and keeping quiet for about four hous er the administration. A diet of meat and fish, rithou read or farinaceous food of any kind, should be overvior the two days preceding the cure, and on the last by no od whatever should be taken after dinner. During his almoon it is also advisable to clear the bowels by gans' a mild purgative; if then the draught be taken at bout 0 or three o'clock the following morning and sleep again pred to after its administration, the patient will lave de all he can to ensure success.

In the out of nine cases in which the efficacy of this preparion was tested the entire tapeworm was expelled within e hours after the consumption of the draught, and

in one se only success was not complete.

The paration obtained as above has a pleasant fruity avour nd is readily borne by the stomach. The most astidii patient would take it without the slightest diffiolty. he value of such a preparation appears the greater from that all tapeworm remedies of repute share benarous taste and sickening effects of the decoction of pomegiate bark.

The P IDENT thought the value of the dose seemed quite to justify the plarmacical time and trouble expended. He noted that 6 oz. of ulwial 1 to be treated with 7 pints of water, and then reduced to a ingledd He would ask if it kept well. If it had to be prepared for

se ca'en so much the better for pharmacy.

Dr. Q LAN had listened to the paper with a great deal of pleasure. Impent was almost the only valuable remedy for tapeworm, and he lad had and quarter of an hour after giving a dose which failed to act. Be hade us believed in the old Spanish remedy pomegranate. He would with paration and report on the results in the medical journals.

Mr. T/ER believed that the extremely nauseous taste of pomegranate description is due to tannic and gallic acids. Could not the surplus lead be remot by sulphuric acid or soluble sulphates? The use of H2S was

Mr. Si's thought that oil of male fern was dispensed more than any other an mintic.

Dr. Qu.An said that he had returned to turpentine under protest after import ures with all the other drugs in use.

Mr. Su. LD, in reply, said his preparation had kept two months, but he danot, whow much longer it could be preserved. He would prefer to the paration taken up by some wholesale house, as it would take kineday) prepare it to a physician's prescription. He did not think the phuretted hydrogen could be replaced by sulphuric acid, as billing v acids destroyed the effect of the drug.

SCAMMONY-A NOVEL ADULTERANT.

By Michael Conroy, F.C.S.

A SAME which represented a direct importation from Consta nople came into the author's hand for the purpose of anals. It consisted of several small pieces which had

apparently been broken off large thick cakes, with the object of obtaining a representative specimen of the bulk from which they were taken. These were of a uniformly dark ash-grey colour, breaking easily and presenting a resinous shiny black fracture, indistinguishable from pure virgin gum. Triturated in a mortar the pieces were easily reduced to a buff-coloured powder, somewhat darker than what is usually obtained from the virgin gum. This powder formed a very nice emulsion with water, and in other respects appeared quite satisfactory. To ether it yielded 83.8 per cent. of a nice amber-brown resin, and a decoction of the residue when cooled was turned blue by iodine, as is usually the case with nearly all commercial specimens. The starch thus indicated was found by the microscope to be wheaten. So far nothing arose to create suspicion, but the resin obtained by the extraction with ether had a peculiar smell, which recalled the odour of the resin prepared from the root by means of alcohol, pharmaceutically known as scammony resin. Another portion of the sample was powdered and compared with a sample of true virgin powder, and at once revealed the presence of the resin prepared from the root. This resin will reveal itself by its very peculiar and persistent leathery odonr, while the true gum possessed a quite as distinctive sour cheese-like odour. There was no doubt that this parcel has been made up of some skillip scammony and resin prepared from the root

There was no discussion.

ACONITINE FOR INTERNAL ADMINSTRATION: ITS CERTAINTY AND SAFETY.

By T. B. Groves, Weymouth.

ACONITE seems to be more used in medicine in America than in this country. Dr. Squibb has recommended the use of a fluid extract of the root, which itself is very variable in quality. After the numerous scientific researches on the subject this seems a distinct retrogression. The subject is not exhausted, but investigation is hampered by the restrictions placed on physiological experiment.

Aconitum napellus is the species almost always ordered. Its alkaloid can be prepared in a crystallised state and is easily identified. Dr. Fraser, of Edinburgh, has investigated its physiological action, which differs from that of the alkaloid of A. ferox. The latter root, whenever it can be obtained. is, however, used for the manufacture of the alkaloid. The root of A. paniculatum sometimes occurs, introducing

another alkaloid of different properties.

Aconitine before it can be safely used for internal exhibition must be separated in a crystalline condition. This is not difficult, but it is wasteful. Ordinary skill only is required, helped by extraordinary patience. The nitrate is the best of its salts to crystallise, and can be produced in quantity averaging, perhaps, one-third of the total yield of alkaloid. From the nitrate the pure alkaloid or any of its salts can be made without difficulty.

It fortunately happens that the nitrate of fer-aconitine is crystallisable only from a strongly acid solution. It is therefore necessarily excluded from the crop of crystals

obtained from a neutral or nearly neutral liquid.

There remains the possible admixture of picraconitine, the nitrate of which crystallises in forms so like those of napaconitine that by an ordinary observer they would not be distinguishable. The bitterness is its most patent distinction. The poisonous aconitines arc not bitter. Moreover, its comparative solubility in dilute ammonia is characteristic, s) that a nitrate of aconitine that yielded on precipitation with dilute ammonia a proportion of alkaloid much less than that due to its centesimal composition would deservedly be suspected. However, the best test of all would be the physiological applied to each batch of alkaloid by competent experimenters, and a series of preparations so guaranteed produced by a house of known reputation would soon be accepted by the medical profession as a most useful addition to the list of heroic remedies.

Dr. Alder Wright regretted the retrogressive action of the American Pharmacopæia Committee. He had supplied them with a precis of the state of knowledge on the subject, and had hoped that the information would lead to the adoption of a crystalline alkaloid. The nitrate of aconitine was convenient to prepare, but the hydrobromate was almost equally insoluble, and in solution was more permanent than that of the

nitrate, which was subject to a slight decomposition and required to be freshly made. He had supplied Dr. Stevenson with samples of various alkaloids in connection with the Lamson trial, and his experiments were

Mr. WILLIAMS was rather bound up with an amorphous form of the alkaloid, having been more or less connected with it through the late Mr. Morson. He hardly thought it advisable to change to a crystalline alkaloid, as the amorphous form seemed to have more active physiological groperties.

THE COMPOSITION OF EASTON'S SYRUP.

By Robert H. Davies and Emil B. Schmidt, Ph.D.

EASTON'S SYRUP professes to contain "about 1 grain phos phate of iron, 1 grain phosphate quinia, and 1/32 grain phosphate of strychnia in each fluid drachm. This statement is made by Mr. Squire,* and a formula given for making the syrup which is called "Dr. Easton's formula."

Proportion of Quinia Phosphate.—If the directions given here are carefully followed, the product will measure between 24 and 24½ fl. oz., and will contain the quinia phospbate derived from 192 grains of sulphate. Approximately, then, 1 grain sulphate of quinine has been used in the production of 1 fl. drachm of syrup, which corresponds to 0.86 grain of The amount of phosphate of quinia per fl. drachm. this latter in a sample of syrup prepared in accordance with Dr. Easton's formula, deduced from the amount of alkaloid extracted, was 0.814 grain per fl. drachm, that is, 6.51 grains per fl. cz., whereas in various other samples of commerce the amount of phosphate of quinia varied from 1.57 grain to 7:13 grains.

A sample, prepared in accordance with the Pharmacopæia of the United States, yielded alkaloid corresponding to

8.56 grains quinia phosphate per fl. oz.

Proportion of Ferrous Phosphate.—Dr. Easton's formula would give a maximum of $5\frac{1}{3}$ grains per fl. oz. only, instead of the 8 grains as claimed. But even that amount of $5\frac{1}{3}$ grains per fl. oz. is most probably not reached, since in the process of decomposition a quantity of sulphuric acid becomes liberated, which doubtless prevents a portion of the ferrous phosphate from being precipitated.

The amount of iron present in the samples examined was

equivalent to ferrous phosphate, varying from 0.97 grain per fl. oz. to 12 32 grains. The amount in a sample made by

Easton's formula was found to be 4.7 grains.

Proportion of Strychnine.—This varied from 06-08 to

3 grains per 4 fl. oz.

The sample prepared according to formula showed ·8 grain in 4 fl. oz; by this test, theoretically, 1 grain should be found in this quantity.

Phosphoric Acid.—Commercial samples contained from 19:36 to 49:24 per cent. of this acid. A sample made according to Easton's formula yielded 37.68 grains per fl. oz., The sp. gr. varied and the theoretical amount is 38 grains. from 1,270 in the standard sample to 1,326.

The substauce of this paper was given in a few words by Mr. PLOWMAN In each case the processes of estimation were detailed in the original.

Mr. Plowman remarked that in the estimation of quinine the whole residue from obloroform and ether was taken as pure quinine, which was a serious blemish.

THE ODOROUS PRINCIPLE OF HENBANE LEAF.

By A. W. Gerrard, F.C.S.

A FEW years ago some fresh henbane leaves particularly attracted the author's attention by their unusually strong but very characteristic odour. By a process, given in full, he succeeded in isolating the odorous principle, which forms a pale yellow unctuous semi-crystalline mass, having the appearance of a stearoptene. Its odour was that of henbane, at the same time suggestive of butyric acid. It was found on further examination that it contained butyric acid, so that it is a butyric ether, or, it may be, a butyrin.

Practical bearing on the Pharmacy of Tincture of Henbane. -It is well known that some tinctures of henbane give a turbidity when diluted with water, whilst others do not; also that the tincture gradually loses its green colour, forming a dark deposit. As regards the former it has been stated that the difference is due to the use of annual and biennial

* "Companion to the British Pharmacopæia," 13th edition, p. 148.

henbanes, a tincture of the latter only givin turbid This is not the fact, as the tinctures from th vari when freshly made equally give turbidity; it irue th difference is sometimes observed, and may be a ibutab the period at which the plant has been gathed, and extent to which the odorous principle and fath develo Many samples of tincture of henbane almost htirely their property of becoming turbid with water; his is g rally the result of age, for such a tincture will e foun have lost its original green colour and changedo a br with formation of the usual dark deposit. The depos and disappearance of turbidity are simultanes and portionate. The deposit in the tincture, if expined, probably be found to consist of a mixture of crous ciple, fat and chlorophyll, the separation of with is sl effected by the agency of the water in the prf spir this be so, then it is an argument for the use a stro alcohol in making this preparation.

There was no discussion.

SUGGESTIONS FOR COMBINATIONS OF COODION

By J. B. Barnes, Pharmaceutical Chest.

THE advantages of combinations of collodion to that to like ointments, they remain fixed for some tin to the applied, and are cleanly. It remains, however, be prowhether the remedial effects of the several systam decombination with it will be obtained. Collodio nust rethe action more or less of all of them, but at t same it is reasonable to expect some of those under psider may be found useful. The following have een i. suitable:-

Collodions.—Wood-tar collodion, 1 drachm by eight 4 of collodion. Coal-tar collodion, the same portic an alcoholic extract of coal-tar of the consistee of with collodion. (The addition of 30 grains of line t. 1.18) fluid ounce of either of these preparations do not its consistency or adhesive properties.) Oleum is juned by weight to 5 of collodion. Oil of gurgun, by wiled to 3 or 4 parts of collodion. Oleic acid and Per ian be each in the proportion of 1 by weight to 4 of c odior

Flexible Collodions.—Glacial acetic acid 1 pa by w flexible collodion, 4 parts; carbolic acid, in citals, to 4 of flexible collodion; creasote, 1 part by eight and essential oil of mustard, 1 part by weight to of fir collodion. Belladonna collodion, macerate 60 ains alcoholic extract in a fluid ounce of flexible llodic twenty-four hours, and decant the clear liqui Acc atropia, and hyoscyamia dissolve very readily collolei Veratria, 8 grains dissolved in 1 fluid drachm Mor mixes with 7 fluid dracbms of flexible collodion 5 or 10 grains in a fluid drachm of the acid wi 7 dr. of flexible collodion.

Ammoniated mercury, iodide of lead and recip sulphur: each of them should be mixed with rible dion in the proportion of 1 drachm to 7, and 4 5 dra castor-oil.

Oleate of mercury should be mixed with collion i

proportion of 1 to 4.

To prepare the oleate take 1,320 grains o oleic dilute with three volumes of ether; add 420 g ins o binoxide of mercury, and sbake the mixture occionally four days, until the orange-colour of the binoxid disap allowing the creamy compound to evaporate ithou The dilution of the ole acid application of heat. ether prevents caking; the oleate of mercury so cained a yellowish white colour, of the consistence of veline.

Oleate of zinc will mix in the proportion of lart to

collodion.

Iodide of cadmium dissolves in flexible collod, 1 dr mixed with 7 fluid drachms of the collodion at 4 dre

When iodide of sulphur is treated with codior iodine dissolves out and the sulphur subsides.

There was no discussion.

Towards the close of the proceedings the warter Papers were reach abs evident tendency to hurry. and the discussions dwindled to the finest ten y. the end of the programme was reached,

Mr. OWMAN rose to perform what he said was a very deasa task. The books provided by the generosity of Mr. thom Hyde Hills, with those given by Mr. Thomas Hanbary, memory of his brother Daniel Hanbury, could not be present to the local Association, as none at present wisterout they would be placed in the care of the local secrets to the Pharmaceutical Society as the nucleus of His only hope was that it would grow as mid; the town, with signs of equal permanency.

In thos, the local secretary, who was very warmly thanked the Trustees for the gift, and assured them hat thoumber of books would be very considerably added

h ancie books themselves much appreciated.

THE PLACE OF MEETING FOR 1884.

Wr. BADEN BENGER said that most were aware of the eastor, the Conference to accompany the British Associaim. A le latter was to visit Canada next year, an invitation by be sent by the chemists of Aberdeen and Northern Sotlar But during the last few days circumstances had change It had transpired that the British Association would obably visit Aberdeen in 1885. The Aberdeen themis and therefore temporarily withdrawn their invitathe Conference was not without a home. He would da letter from Mr. James A. Bell, inviting the tufene to Hastings. He moved that this cordial invition cordially accepted. Dr. (NLAN seconded.

OFFICERS

The tion was put and carried unanimously.

The Hot resulted as follows :-

Proble -J. Williams.

We Pilents .- M. Carteighe, London; J. R. Yonng, Edinburgh; S. R. Atkins, Sabury

Ivasu -C. Ekin, Hounslow.

Guera ecretaries .-- F. Baden Benger, Manchester; S. Plowman,

Wer bers of Executive Committee .- J. Borland, Kilmarnock; J. C. C. ame, B st; W. A. H. Naylor, London; W. V. Radley, Southport; W. Li, Lon; G. S. Taylor, London; J. C. Thresh, Buxton; J. B. ephense Edinburgb.

Auditor F. H. Sykes, Southport.

VOTES OF THANKS.

IL SPHENSON moved that the cordial thanks of the members be given to the chemists of Southport ad diget, especially to Messrs. Radley, Ashton, Ball, kes, a Kershaw, for their hospitable reception. They we unr such an active sense of the favours and kindassesty were still receiving, and of what they would wive at night and on the morrow, that the motion wheel hing to recommend it. In the peripatetic exist-nee of e Conference, it had met with such continued apilal, that it was very difficult for any town to surpass periods forts. The very least that could be said was that willipp had held its own. They had already received that be eward in the fact that this was without exception best tended meeting the Conference had held. It. TLOR seconded the motion, speaking for the South

Mr. B GER said he had seen more of the work of the hal conittee than any other member. He had only to usill fi put on the brake. The brake did not act, and powers to check the flow of enthusiasm.

The P'SIDENT also supported the motion.

The Ition was carried with acclamation, and Mr. EDLEY'sing to respond, was received with great applause. thand the meeting for the kind way in which the abours the local committee were appreciated, and hoped the heady meetings the work of preparation had inthe wera of friendly feeling inaugurated, would serve as the foldation for a local association.

Mr. A ron, secretary to the local committee, said the with haveen a labour of love, and had been the means of dirging gether many who were not in the habit of meeting The second many who were the conference at St. Helen

A vote of thanks to the public bodies who had opened the incutions to the members of the Conference was

proposed by Mr. Brunker, seconded by Mr. W. A. H. Naylor, and carried.

Mr. John Williams then rose to propose a vote of thanks to the President, Dr. Attfield. The excellence of his address, he said, and the manner in which the meetings had been conducted, made him tremble to think that whoever followed must inevitably fail. For himself, he would not attempt to imitate Dr. Attfield's course, except at a long distance.

Mr. MASON (Liverpool) said the motion needed no seconder. They were indebted to Professor Attfield, not only for presiding, but for his very able address. It would have doubtless been more congenial to him to deal with scientific subjects: but he had forgone his own feelings, and entirely consulted those of his audience. Mr. Kershaw had thrown out a suggestion which he (Mr. Mason) would like to put as a formal proposition, namely:--" That copies of both addresses should be presented to every member of the House of Commons." He thought there would be no great difficulty in doing this. For the first time since it came into existence, the roll of officers of the Conference would now cease to bear Professor Attfield's name. Though his name was no longer there, doubtless his heart would be.

Mr. PLOWMAN explained that Dr. Attfield would still be a vice-president, in virtue of having passed the chair.

Mr. SCHACHT read a short extract from the Times of the

The PRESIDENT rose to respond, and thanked the mover, seconder, and supporter of the vote; his colleagues, and the members of the Conference; the past presidents, from whose example he had learned so much; the secretaries, the authors of papers, among whom he was proud to see so many of his own pupils; all who had attended the Conference, numbering nearly two hundred; and especially those who had come to give him their personal support. The wish expressed that his two addresses should be placed in the hands of all members of Parliament he considered a great personal compliment. He knew of no difficulty in the Knowing that he intended to complete the subject, he had a thousand or so copies of his first address struck off at the time; these could be bound up with the second, which was still in type. He had been able to give his services to the Conference, without a break, for twenty-one years, and though straining to his powers it had been a labour of love. He felt that pharmacy had given him his position-he had begun life as a pharmaceutical apprentice—he had therefore felt glad to do all he could to promote its welfare. As one of the elected officers, he must now bid them a loving farewell.

The attendance at the Conference was the largest hitherto. The signatures in the visitors' book numbered 186, excluding duplicates. This is the fifth time the number has exceeded 150-namely, Liverpool, 170 in 1870; London, 175 in 1874; Glasgow, 176 in 1876; and York, 166 in 1881. Since its inauguration the Conference has met eleven times in towns north of a line joining the mouth of the Mersey and the Wash. The attendance has eight times exceeded 100, and averages 125. It has met ten times in towns south of the line, with an average attendance of 105; 100 being exceeded only five times.

Bacup-Sutcliffe, G. H. Bacun-Sutcliffe, G. H.
Barnsley-Lister, J. H.
Belfust-Payne, J. C. C.
Bentham-Sherlock, Edgar, M.A.
Berlin-Myllus, Dr. Franz
Birmungham-Perey, Geo. E.
Birkenhead - Crage, Jose.
Bishop Auckland-Leigh, John V.
Biackburn — Farnworth, Walter
Engroyeth William Walter: Farnworth, William
Bolton- Forbes, N.; Harwood, E. G.;
Mason, W. B.
Bootle-Alexander, John; Wyatt, Harold Bournemouth-Worth, E. Bradford-Waddi gton H.
Brigh'on-Savage, W. W. Bristot-Schacht, G. F Burnley -Hitchin, Robt. Bury, Lancs. - Siebold, Louis Buxton-Thresh, John C. Burvon—Inresh, John C.
Chettenham—Barrow, W.
Chester—Baxter, Geo.; Grindley,
Wm.; Williams, Thos.
Clayton-te-Moors—Johnson, Mark
Datmuir, N.B.—Stanford, Edwd.
C. C.

Droitwich-Taylor, E. Drouten—1aylor, E.
Drubten—Eronker, J. E.; Quinlan,
Dr. F. J. B.; Wells, F.; Wells,
J.; Wells, W. F., jun.
Eccles—Harland, R. F.; owie,
W. L.
Edinburgh—Dott, D. B.; Stephen-Edinburgh—Dott, D. B.; Stephenson, John: Symington, Thos.; Lee, J. Dickinson
Faruworth—Watkinson, J. W.
Freshfeld—Parry, H.
Giessen—Will, W.
Glasgow—Frazer, Daniel; Nicol,
John; Rait, R. A.
Gloucester—Stafford, Wm.
Gent Horlom—Lister Si G: eat Horton-Lister Si Halifax-Alexander, Dr. Wm. Hahfax—Alexander, Dr. Wm.
Helensburgh—Tocher, Geo.
Heyrood—Beckett, W.
Hyam—Wild, Joseph
Hyde—Curfew, John
Kilmarnock—Borland, John
Leicester—Clark, J. W.
Leeds—Fairley, Thos.; Horsfield,
John Napier; Jefferson, Peter;
Reynolds, F.; Reynolds, Riohd.;
Ward, Geo.

Ward, Geo.

adon—Attfield, John; Attfield, D. Harvey; Bou das, J.; Butt, Mr. and Mrs. E. N.; Crawshaw, E.; Ekin, C.; Glazier, Walter N.; Hills, Walter; Holmes, E. M.; Ive, W.; James, L. J. L. L. J. J. A. E. son, A. E.; Lewinton, A. Maitland, P. C.; Morti son, A. E.; Lewinton, A. B.; Maitland, P. C.; Mortiboy, John; Moss, John; Navlor, W. A. H.; Passmore, F.; Pickard, W.; Piper, W. G.; Plowman, S.; Princep, P.; Robeson, C.; Robinson, R. A.; Rowe, Robt.; Senir, A.; Tanner, A. E.; Taylor, Geo. S.; Williams, John; Williams, T. B.; Williams, T. N.; Williams, M. Whitelev; Willmott, W.; Wright, Dr. Alder; Wright, T. R.; --, C. A. P.

A. P. Hartley, J.; Simpson, Rev. S. Lincoln - Culwick, Herb. E.

Liverpool—Abraham, A. C.; Abraham, T. Fell; Billington, Fred; Burrows, Fred; Conroy, Michael; Davies, Edwd.; Fraser, Alex.; Gallaway, J. B.; Hocken, J.; Hyman, Alfd.: Johnson, Edwin E.: Mason, Alfd. H.: Samuel, Albt. H.; Sumuer, E. L.; Symes, Charles

Malton-Buckle, Jas. Matton—Buchle, Jas.
Manchester — Benger, F. Baden;
Butcher, G. S. (salford); Carter,
Wm.; Gibbons, T. G.; Hart,
J.; Jackson, Mr. and Mrs.
Alfd. H.; Paine, Alex.; Robinson, Benj.; Twemlow, Richd.;
Wheeldon, Jas.; Woolley, Geo.
S.; Wilkinson, Wm.
Starket Drayton—King, W. G.
Mirifeld—Crook, Charles
New Barnet, Herts.—Young, R.
Fisher

Newcastle, Staffs.—Croydon, E. H.
Oldham—Eckersley, Jas.; Glover,
I. S.; Hulme, John; Martin,

Anson E.

Ormskirk—Garside, S. A.

Paisley—McMurray, Jas.

Por'ob-llo—Nesbit, J. Preston - Hargreaves, M. Ramsey, Isle of Man-Reading-Cardwell, E. -Laughlin, W. Rockferry-Dutton, John Koyron-Jones, F. St Helens-Sherlock, Mr.

St. Heiens—Sheriock, Mr.
Soltsbury—Atkins, S. R.
Shefteld—Furness, Jos. M.; Learoyd,
E. R.; Newsholme, G. T. W.;
Ward, Wm.
Shepton Mallet—Cottrill, Gilbert, J.
Sou'hampton—Chipperfield, Robt.

Southort—Ashton,Wm.; Ball, Mr.; Ellis,Geo.; Ellis,G.W.; Hinkley, Ed.; Kershaw, Jas.; Loadman, Jas.; Radley, W. V.; Righton, Jas.; Round, Fred.; Steel, Alex.; Surr, Edwd.; Sykes, Mr.; Taylor, R. E.; Wimpenny, Jas.; Wright, Thos. D.; Whitworth,

Swansea-Grose, N. M.; Hughes, Jas. Tarporley-Aston, Walter Todmorde 1- Lord, Chas. orquay—Riches, Thos.
Tyldesley—Wallwork, Joseph
Tynemouth—Atkinson, J. Walton-Smith, John J.

Warrington—Young, J. Rymer Wellington—Butler, Jas. Wigan-Phillips, Jonathan; Stothert, Jas.

Feovil - Maggs, Thos. C.

Forks - Clark, John; Dresser, Richd.

Unk nown—Jelly, Dr., physician to H.M. Dona Isabel II., Madrid

THE ENTERTAINMENTS.

I'ew towns of the size, with a history so short, can boast of so many attractions for visitors within its own borders. The full advantage of these was given to members of the Conference. At the midday adjournment on the Tuesday each member was presented with a ticket of admission to the Winter Gardens and Aquarium, which are nearly opposite the place of meeting. The fine conservatory contained some magnificent Bourardias, tree ferns, and other plants of handsome foliage, with devices in the ornamental arrangement of plants which were new to some visitors. aquarium did not present many very distinctive features, but we noticed a beautiful collection of sea anemones in table tanks. After the close of the day's business the meet. ing adjourned to the swimming-baths, supplied with filtered sea-water. There are three plunge-baths at different rates for admission, with private hot, cold, shower, medicinal, and all other baths, and the proprietors claim that the area of the swimming baths is greater than that of any other seawater baths in the world. Here a special swimming gala was given, in which the male and female teachers of swimming, the "champion professional swimmer of the world," and a number of girls and lads took part. Swimming in clothes, and the best way of undressing in the water, how and how not to rescue a drowning person, how to assist an exhausted swimmer, and a variety of fancy and fanciful swimming-feats were all displayed. The last feat was a demonstration of the right and wrong way of righting a boat that has been upset.

Next day at lunch-time the assembled worthies were photographed in a group. After the conclusion of the business a visit was made to the Glaciarium, or real-ice skatingrink. The fine weather enjoyed so far then dissolved in torrents of rain, which continued with little variation till the end of the proceedings. The ice for the rink is made by Gamgee's process; a solution of magnesium chloride, which flows under the ice, is cooled several degrees below freezing-point by the evaporation of liquid sulphurous acid. The acid is reliquefied by pressure, and the process is continuous with both acid and saline solution. The company, the only one of the kind in the world, also manufactures ice for commercial purposes. On entering the rink, the transition from autumn to a wintry atmosphere was sudden enough to make most visitors shiver. On the ice, several gentlemen and lady amateurs who had kindly consented to come gave an informal display of very elegant sting, i cluding waltzing and quadrilles.

Thursday was given up to pleasure-seeking By 8.10 A.M. train the party went to St. Helens. Te scene on the way was very characteristic; it was curic to no how the trees leaned away from the sea breezes nd, wh a certain hill was passed, suddenly leaned in toppos direction, showing that we were again nearing he coa Skeleton trees and bare soil marked the appect to Helens. The works which the members were wited visit were the Union Plate-glass Works. Kur & Co Chemical-works, Bishop's Flint-glass Works, at Mes-Bibby & Son's Copper smelting Works. The nee of div ing the party showed that the plate glas; works a copp smelting were most popular in anticipation, but hen no were compared afterwards it was found that t court and freedom with which information was give made visit to each establishment thoroughly satisfacter and m The local committee and the cherits of enjoyable. Helens are to be congratulated on the excellenenterte ment they were thus able to provide.

Messrs. Kurtz & Co.'s chemical-works are deved to manufacture of soda and the bye-products by the Lebland The most remarkable feature was the ninute process. tention directed to economising all the material and latrequired. Thus, nitrous vapours, that would others escape into the air, were met and retained by a urren sulphuric acid and used for the oxidation of ulphur oxide. In the bleaching-powder chambers tubs fre places by so that the finished powder could be dropped to the tamped down, and covered ready for transpe with exposing it to the air. It was noticeable that e impaired solution of potassium chlorate produced cryls quad different in appearance from the flat tables comonly in with. The commercial chlorate manufactured he contains less than half per cent. of impurities. The gene feat of the manufacture are known to our reader and briefest description would take more space in cal-

spared.

At the Union Plate-glass Works the operation caswas not in progress, but all the other processes re sho The melted glass is poured on flat tables o ast i 9 inches thick at the edge and 12 inches at le cer weighing 35 tons, and mounted on rails, so that hey can be easily moved. They are made so thick to preve warp. with the heat of the molten glass. The last one t up t seventy horses ten days to bring it ten miles. Aer cas the plates are annealed in low reverbatory ove, mad level as possible by a layer of sand, in which tly are posed for three or four days. After this proces the u surface is flat and highly polished. It will withs weather and all acids, and is known as "fire polied." lower surface is slightly irregular, from contact with bottom. After annealing the plates are polished y three four successive stages. At first they are cenited heavy bed by plaster of Paris. A cast-iron pla is laid it, with sand and water between, and a circula motic given by machinery. This gives a nearly level face. the next stage two plates are made to grind ach o with emery between. The result of this is a sm "ground glass" used for windows and doors; th surfac smooth but opaque. Plates of glass are nev perfe level, and to keep the two plates in apposition ty hav be weighted at the edges. A second eme grind follows, and the final polishing is done by felt rouge, or oxide of iron, worked by a raer c plicated and very noisy machine. The in g their own emery, which comes from Naxos in e Green Archipelago; burn their own plaster of Paris; ake tank own rouge by roasting copperas in ovens to which he nathern flame has no access; wash the sand which (see for the Prussia for making the "metal"; and are sell epen as far as it is possible to be so. The works stand 13 a of ground, and more than 700 hands are empred. were struck with the healthy, neat appearance of e wor who were clean in spite of their dirty work. Thourten was conductors gave many curious details of the tory value of plate glass for which we cannot find spa

At Bishop's flint-glass works the processes blow grinding, and ornamenting lamp-shades were xhibi wi advantage. For the special entertainment of the

pu on being very clever.

Mesrs. Bibby & Son's copper-smelting works the small pa who had time to visit them were sbown all details of the anufacture from the original pyrites. The ore used is chi / from Newfoundland, and contains traces of silver and gol which, however, are not recovered at these works. The fin ept some furnaces waiting for a long time to give the vis sthe opportunity of seeing one process.

(the return to Southport everyone hastened to the Bo ical Gardens, about two miles from the town. About 400 dies and gentlemen assembled, and, in spite of the dre ing rain, were comfortably accommodated and admir y entertained in the Conservatory and Museum. Mr. Let rindon, an enthusiastic botanist, gave a demonstration offerare plants in the Museum, and afterwards a truly pop r lecture in the Conservatory. The specimens ex-hibil were most admirably preserved; one secret of his stoot, Mr. Grindon says, is the use of cotton wool in the melinary process of drying. Delicate parts are protected by ue paper, a sheet of cotton wool is placed on the plar and pressure applied. After a few days the tissues will sufficiently stiffened to allow of their transfer to ordiv drying-paper, and the parts are preserved in their origil form and position to an admirable degree. Next to the eresting works thrown open to the visitors at St. Hek, the grand treat of the day was the rendering of partings and choruses by members of Mr. Halle's choir fon anchester.

The fernery attached to the conservatory was a charge place, adorned with Australian tree ferns, beautil specimens of begonias, finer than any we have sensewhere, and all kinds of ornamental plants. A fine milly band was in attendance, and gave selections at interesthroughout the afternoon. Towards dusk the weather clear, and members dispersed over the fine grounds, the pour and rasher visitors betaking themselves to boats and notes on the artificial water. The Conference must be ongulated on securing such entertainers, and the entertainer securing such success and bearty appreciation.

THE PRESS ON PHARMACY.

A GIVT many of the principal organs of public opinion have ven summaries of Professor Attfield's recent address to th'harmacy Conference, and in many cases have added commits, generally exhibiting a favourable tendency owar the claims of pharmacists. We give the essence of these low.

The imes says :-

Thenanner in which, as it is asserted, retail chemists are beg pushed out of existence forms part, it need hardly besal of the revolt against excessive retail profits which laso te years become general among people of moderate Professor Attfield might possibly not condemn this wooling a whole; but he contends very forcibly that it is misdited in the particular case with which he deals. Therere some trades in which the action of the intermedia is extremely valuable, and of these that of the drugg is a conspicuous example. It is of the highest imortan to all who require medicines that they should be of go quality, neither impaired by keeping nor defective by rein of faulty preparation; and yet in the whole range of arl es of merchandise there can be few which are liable 6 so ch designed or accidental variation. Many drugs are p's of plants, leaves, roots, bark, and the like, and the quities of these will vary with soil, season, and manner of column, besides being prone to deteriorate by lapse of time, lany others are chemical preparations which may te in jously affected by careless manufacture; and all alke; seriously exposed to risk from that all pervading pact of adulteration which is described by a well-known politin as a legitimate form of commercial enterprise. li or to sell any named drug with safety and propriety, the ser must be thoroughly acquainted with its appearance a other peculiarities, must know how to distinguish the gaine from fraudulent imitations, and, in a word, must capable of maintaining a check upon the wholesale dealerrom whom he draws his supplies. Such work as this is at mere distribution, mere buying in bulk to sell in

detail; and it deserves to be recognised and paid for as something which possesses a higher value. It may be to the interest of the public to pay for it even at a considerable rate, for the sake of having such special information always available in time of need.

The value of the educated druggist is, or ought to be, that he protects the consumer, and for affording this protection he has a clear right to be paid. Professor Attfield suggests that the chemist might avowedly justify his charges by his knowledge of the things in which he deals; that be might say, in effect, "this medicine which I sell for sixpence cost me only twopence; and if I were a grocer, I could sell it for threepence and be content. The remaining threepence is not my charge for the medicine, but for my time and trouble in ascertaining that it is genuine and unimpaired. We think the customer would generally admit the plea; and hence that, on the ground of special knowledge, the druggist might fairly hope to triumph over any unreasoning desire for cheapness which co-operative stores, or kindred institutions, by giving it where it can be rightly given, bave perhaps fostered in conditions which prevent it from being conceded without risk to the public. When Parliament meets, we trust that the official representative of the drug trade may be able to obtain a serious consideration of the existing state of things, and that some measure for rendering the Pharmacy Act no longer a dead letter may before long find its way into the Statute-book.

The Daily News says :--

Professor Attfield's address to the British Pharmaccutical Conference was one of considerable interest and importance to the public at large. That public is wont to be rather sceptical of jeremiads as to the state of particular trades and professions. It is felt that if a certain trade or profession is exceedingly flourishing the public may make up its mind that it is flourishing at somebody's expense, and that that somebody is probably the public itself. Professor Attfield, however, has shown very conclusively that the entire disestablishment of the qualified chemist and druggist would be a public misfortnne, against which the possibility of obtaining a shilling bottle for ninepence balfpenny will not be set by any wise person. It is, moreover, quite evident that it is, as he contends, an absurdity to maintain a solemn Act on the Statute-book inflicting pains and penalties on Dick, Tom, or Harry for calling himself a chemist and druggist without qualification, while any Harry, Tom, or Dick is at liberty to keep a chemist and druggist's shop. and to sell chemicals and drugs with no more qualification, licence, or State recognition of his fitness than his neighbours the bookseller and the draper.

It may be allowed that there is force in Professor Attfield's argument that drugs, especially compounded drugs, are not properly or safely to be made the subject of unskilled distribution; that much depends on their quality or condition, which cannot be left to a mere distributor to decide upon; and that in estimating druggists' charges allowance ought to be made for the fact that a man of some education and practical skill is practically putting his services at any hour of the day or night at the disposal of the neighbourhood where he sojourns. It would certainly be a forlorn hope to attempt to knock a co-operative society out of its bed at midnight to furnish the antidote or the restorative required to save life; and even the most affectionate of relatives might hesitate to call in the services of an obliging baberdasher to make up a prescription with half-

a-dozen—even mild—poisons in it.

But it must be questioned whether it is in the power, and still more strongly questioned whether it is within the proper province, of regislation to apply itself directly to the remedy of the state of things of which Professor Attfield complains. That state of things is due to a variety of causes by no means all of which are recognised by the Professor. In the first place, all his ingenious fencing about the charge of the regular chemist being rather a professional fee than a trade price does not parry the accusation that this charge is but too generally an exorbitant one. Again, the chemist complains of competition; but are all the articles or even the most profitable articles of his trade strictly drugs? Does be not deal largely in perfumes, soap, mineral and aërated, but not medicinal, waters, miscellaneous toilet wares, knicknacks of all sorts and kinds? If he throws stones at the grocer and the booksciler, may not the per-

fumer, the oilman, the brushmaker, the liquor-seller retort on him? And with regard to the really important question of dispensing proper, are not chemists themselves liable to the charge of overstocking the market? The falling-off of registered druggists which Professor Attfield mentions may not be such a great disadvantage to the trade, and it might probably, at least in large towns, continue still further without any district being deprived of a qualified dispenser Many people must have wondered within easy distance. what chemists find to live upon in the suburbs of London, considering their number. The fact is that, partly from the supposed inheritance of the old apothecary status, partly from the custom of equipping the shop expensively and showily, the druggists' trade has long held the position of a "genteel business." All genteel businesses tend to be overstocked, and it may be added that they are especially liable to dangerous competition from persons who have a keener eye to business than to gentility. But, despite Professor Attfield's facts, we entertain very great doubts whether the duly-qualified druggist is as yet scarce, or likely to be scarce, in any populous neighbourhood. If it became really difficult to find him, legislative efforts for his preservation would have to be made, no doubt. But the Professor will hardly strengthen his case by putting in, as he does, a plea for allowing chemists to practise what is called "counter prescribing." In the first place, a complaint of competition with the chemist in drug-selling is but awkwardly mated with a recommendation of competition by the chemist in drug-prescribing. In the second we venture to think that the harm done by this amateur doctoring considerably exceeds that done by the selling of inferior, adulterated, or spoilt drugs, owing to the incompetence of the seller. In short, it is possible to go with Professor Attfield so far as to allow the justice and advantage of drawing the line of outward and visible difference between the qualified and unqualified drug vendor somewhat more broadly and distinctly than is done by the Act of 1868. It may also be granted him, though not to the extent which he seems to desire, that the list of drugs and compounds which none but a duly-qualified person may sell on any terms might be advantageously enlarged so as to draw such a line. But the principle of any such extension must be, not the protection of the chemist in the one sense, but the protection of the public in the other.

The Standard says:-

The address which Professor Attfield delivered to the Pharmaceutical Conference, while serving as a sort of "side show" to the British Association, which is also in session in Southport, would scarcely have deserved even the much-abused name of "science." Nor do we imagine that any such rank is claimed for it. The meeting over which Dr. Attfield presides is to a certain extent a great trade union, and his discourse touched mainly on the extent to which grocers who sell drugs, physicians who prescribe proprietary articles, patients who decline to swallow physic, and general practitioners who dispense their own medicines are cutting into the business of properly-qualified druggists.

The Liverpool Daily Post says:-

That druggists should, like other tradespeople, be exposed to sharp competition, with the inevitable result of lowering prices, is not of itself a grievance with which the public will greatly sympathise. But this is a matter in which genuineness of quality is of much more consequence than lowering of price. Still, it is difficult to see what direction future legislation should take. It would be impossible to give a certain class of men a monopoly of the sale of simple drugs. Even if it were not, it is conceivable that qualified druggists might sell inferior drugs—inferior, perhaps, in original quality, inferior from long haunting of the shelves. You may make druggists in this way the guardians of the public health so far as physic is concerned; but who is to guard the guardians? After all, the public must look out for themselves in this matter. If they are so stupid as not to recognise the advantage of scientific training in their purveyors of medicine, and prefer to buy physic at their drapers', it is difficult to say them nay. At the same time, with sensible people the best druggist will always have the best practice; and we do not know that excellence in any profession can have, or ought to want, any better guarantee than this.

The Manchester Examiner says:-

The President's address serves a useful purpose in forming the public that a class which is generally regard as enviably placed in our social economy is no happic than any other class, and consists of "men with a grience." The grievance is, that while the law requires them pass an examination before they can enter upon the en ment of the profits of their business, it permits the general adesman, who passes no examination, and who may be le today and gone to-morrow, to enter into serious com tition with them in very many matters. In other word they complain that no restrictions such as they willingly ubmit to are imposed upon the very large number of tresmen who compete with their own special trade as veryrs of patent medicines. A good deal that Dr. Attfield id in regard to the public interest in this matter is undotedly true, and that admission may be made without involng an acceptance of the whole of his conclusion that the Primacy Act should be extended in its spirit and letter to the ase of tradesmen other than qualified chemists dealing indrugs. No doubt, as he says, the public have no guaran: that they are not supplied with drugs "fair in appearance to the untrained eye, but worthless to the trained eye of the druggist, drugs which once perhaps were of good quay, but which, without altering in appearance, have becomespoilt by age." It is not easy to see, nor does the address plain, how in such a case State machinery can supply a suffitute for the salutary caution which the public is requed to exercise for its own protection.

The Liverpool Courier says:—

Everybody knows that the pharmaceutical chemicis not above extending his trade by storing his shop with ticles not strictly within the requirements of the healing a. He trenches on many of the trades enumerated by the Piessor, even dispensing the cordials which the publican lieves belong to his domain. Then again druggists have le their countenance to the patent medicines, which certay require no special skill to sell. The case of drugs with are not packed is very different, and here the public, as ell as the druggist, is in need of protection which the sting law does not afford. It must be recollected that, Professor Attfield points out, "nearly all drugs are pronous more or less," and it follows that nearly all drugs slild be dispensed and sold by persons conversant with the properties, and not admitted within that area of fre trade which has tended to injure the druggist while jeop dising the health and lives of the people. We are afraid to the pharmaceutist must not look to the Legislature for much protection against the free-trade spirit of the age. Inless the "packed and packeted" drugs can be abolish, they must be prepared to see a large share of their traden the hands of other people; but the public have a right to be protected against the unregistered dealers who vend p sonous drugs without knowing the dangerous qualities of wat they dispense.

The Manchester Courier says:-

The address delivered by Professor Attfield, at t Phar maceutical Conference, ought to receive attention. t discloses a serious danger to which the public are expodent to remove which legislation has taken place. That he law affords, nevertheless, no real protection, was abunded by demonstrated, and it is clearly of importance that so thing should be done for the purpose of remedying its def. s.

The Birmingham Post says:

If it be true, as asserted, that the existing Act the sale of the most potent drug; in the Pharmaco unqualified persons, we can cordially co-operate v he the themselves in procuring its amendment. Anybody, items may hang a red lamp over his door, and decorate his indow with globular bottles of coloured water, with imput providing only that he does not call himself a cher than druggist, he may dispense over his counter all the druggists, who are handicapped by a long and expectal training. The unfairness of this practice of the qualified chemist is a matter which he may be safeleft to deal with; but the danger to the public involved which everybody must feel and resent. Unfortuna evil is more obvious than the remedy. The only practable remedy, we are afraid, is the slow one of public entired.

it, which might be a good deal assisted, perhaps, hy display of chemists' diplomas in some conspicuous part the dispensary. If this were made a rule of the trade, public would soon understand that the absence of the coma meant the absence of the qualification, and would in to carry their prescriptions elsewhere.

he Bradford Observer says :-

he drug trade, it appears, is in a had way, so far at least the professional dealers are concerned; and one of the c f reasons for this unpleasant phenomenon is said to he textensive appropriation of the trade by those who have er undergone proper training. These unqualified dealers. care told, sell inferior and adulterated drugs, to the injury one public. The remedy proposed is to forbid sale of dis by any hut duly examined and qualified pharmacists. (siders might be inclined to doubt whether this would ard absolute security against adulteration. Furthermore, i ould he extremely difficult to define drugs in an Act of Figment, and unreasonable to provide that in country dricts no shopkeeper should he allowed to vend castor oil oenna or other simple medicines. If the Legislature provs penalties for adulteration, and forbids the sale by una ified persons of the more dangerous drugs, it goes as far a le pharmacists can reasonably expect.

summary of Professor Attfield's address appeared in the I dee Advertiser, and "An Old Chemist" afterwards wrote the paper saying that he was not convinced that the sale e redicine is diminishing, or that the business of chemist a druggist is in the languishing condition represented. ":dmit that there are not so many chemists to the populati as there have been, hut, so far as my information extes, the diminution is confined to the lowest class of shops cse dirty, miserably-furnished, poorly-stocked, pokey pes which used to abound in the poorer parts of our large tos and cities. The disappearance of these no one need ret. A sound conclusion on the question as to whether thale of medicine is increasing or decreasing may be reled by looking at the position of the wholesale trade. N, I find that thirty years ago there was in Edinburgh bone wholesale drug house. That house is still in a hishing state, doing as much business, I understand, as iter did, although there are now five other houses all prently doing well. It is not likely, in my opinion, th the sale of medicines will to any appreciable extent fall in the hands of the general trader. Take the ounce of marb, to which reference has been made, and I venture to'y that there is not one general trader in your town who al distinguish between the English variety, which can be heat 1s. per lb., and the East Indian, costing 7s. I was in thistore of one of those general traders in the 'Second G' three weeks ago, when a difficulty occurred as to the coents of a parcel of a white powder from which the lahel be been torn off. One assistant thought it was borax, and ar ier thought it was Rochelle salt. I suppose that but for matervention the decision on the point would have been gilon the lines of Solomon's judgment in the case of the dolly-claimed child, that is to say, half of the contents wed have gone into the borax drawer and the other half in the Rochelle-salt drawer. It may do well enough for grans to sell such nostrums as Siegel's syrup and hop birs, but where they go beyond these they are out of th depth.

e British Medical Journal says :-

)fessor Attfield has made out a strong case in favour of an mediate amendment of the Pharmacy Act of 1868. A meral impression has hitherto prevailed that the Ph nacy Act prevented the sale of powerful drugs, or the diensing of prescriptions by any but properly educated an publicly authorised persons. Dr. Attfield authoritaily informs us that the public have really no reliable guintee that the shopkceper who sells drugs or undertakes the compounding of prescriptions is qualified for his respible and hazardous work. Anyhody, as the law at prot stands, is at liberty to hang a red lamp over his do and to fill his window with the orthodox bottles of colred water; and, providing only he does not incur perty by calling himself a chemist and druggist, to sell dri and poisons without restriction, and to "make up" preciptions with impunity. This practice is grossly unfair to; horestly cducated and duly certificated chemist, and it constitutes a grave and widespread public peril, which cannot be suffered to continue. It is obviously necessary, both for public safety and for the protection of the qualified chemist, to amend the Act of 1868, so that it may really accomplish the purpose for which it was ostensibly passed. It is not sufficient that an unqualified and unregistered tradesman shall be prevented from assuming the name of chemist and druggist; be must also be effectually restrained from selling drugs and compounding medical prescriptions.

The Medical Times and Gazette says :-

Dr. Attfield's address contains a large amount of carefully-gathered information, and deserves to be thoughtfully read by everyone. In the more part of what he says we entirely agree with him; but, unless the public at large can be seriously aroused to a recognition of the evils he points out, it will he to the last degree improbable that the present Government will trouble themselves about the matter.

The Lancet says:—

It is obvious that the suoply of drugs uncontrolled by the State is seriously prejudicial to the interests of the public. Eliminate special technical knowledge from pharmacy, and let drugs be sold by any or every shopkeeper, and the public will have no guarantee that they are not supplied with drugs fair in appearance to the untrained eye, but in reality worthless; drugs which once perhaps were of good quality, but which, without altering in appearance, have become spoilt by age; medicines weaker than they should be, medicines stronger than they should be; poisonous fluids for external application not properly distinguished from those for internal administration; indeed, the public will have no guarantee that they are not supplied with the wrong medicine altogether.

No one, says the Medical Press and Circular, will question the existence of the mischief complained of, or fail to agree that amendment of the legislation which permits it is called for; but to the grounds on which Dr. Attfield defends the cause he is called on to plead exception must in more than one instance te taken. The public has long complained of the exorbitant charges made by chemists for the medicines they dispense from prescriptions, and in recent years advantage has readily been taken of opportunities afforded at co-operative stores and elsewhere for getting the dispensing more cheaply performed. The advice is then given to every chemist to denominate the charge for a bottle of medicine as his fee; and herein he is, we venture to think, guilty of an error which, in principle at any rate, pervades his whole reasoning. He contends that, inasmuch as the chemist must precede registration by a definite period of study, and conclude the latter by an examination which tests his fitness to be a dispenser, that therefore he is placed at once on a level with the professors of medicine and law. We do not wish to discuss how far the assumption could be maintained, hut we do desire to point out a radical distinction between doctors and chemists, a distinction Dr. Attfield has apparently forgotten. The doctor receives a fee for his opinion and directions (including prescription) to his patient, and -omitting for the moment home prescribers—no transfer of material from practitioner to patient precedes the payment of the former. The chemist, on the contrary, receives of the former. The chemist, of the state payment for the articles he sells, with a percentage for the trouble he is at and the knowledge he displays in arranging them in the particular manner required by his customer. To call his remuneration a fee would be to deprive the the term of all special signification, for as much justice would be in the demand of the hairdresser to be feed for cutting one's hair skilfully, or of the grocer for tying up one's tea neatly, or of the tinker for mending one's tea-kettle deftly. We may come yet to see a chemist's account made up of items after this fashion: "Medicine, 3d.; dispensing ditto, 1s. 3d.," and so on, an absurdity that could harm none so much as the pharmacists themselves.

There is also one point particularly on which medical men are fairly entitled to express an opinion adverse to chemists. The term "prescribing chemist" is now so familiar that it would probably be difficult to name a member of the Pharmaceutical Society who does not deserve to have it applied to him. Dr. Attfield, it is true, attempts a sort of apology for this practice; but his attempt must be, even to

to himself, very unsatisfactory. He says that the chemist only temporarily treats an applicant for relief, always directing him to a qualified practitioner. We regret to say we have frequently seen this counter-practice in progress, but never have we been fortunate enough to hear such advice given as that Dr. Attfield describes.

The Daily Chronicle says:-

As the Pharmacy Act was passed for the protection of the public against the dangers arising from careless dispensing and the sale of worthless drugs by ignorant vendors, and as the Act has failed to ensure this protection, an amendment of it in the direction indicated by the President of the Pharmaceutical Conference is evidently needed.

The Morning Advertiser says:—

With many points of Professor Attfield's address we are able to agree, but there are many other points which have to be criticised from a much broader standpoint than that upon which they were dealt with by the speaker. By all means let us have any measures which may be deemed necessary in order to secure the public against fraud in what, after all, is the most important article of commerce after food. This security is afforded by the existence of qualified chemists, and those people who wish to make sure that the prescriptions of their physicians are accurately dispensed will doubtless avail themselves of the knowledge and skill of the qualified persons who hold certificates of competency. No one in his senses who requires a dangerous drug, or an accurately-compounded prescription, would ever dream of going to anybody but a properly qualified chemist, whereas there is no need of the skilled retailer for the sale of Cockle's pills. That is the distinction we draw between the two cases. There are drugs which any man may sell without any possibility of danger to the public, and there are other drugs which can only be sold hy persons familiar with their nature; and in the ordinary course of things the latter class of drugs are those for which people would naturally go to a qualified chemist.

The Morning Post says :-

The doctrine of free trade in drugs, which some persons advocate, runs on curiously parallel lines with the general principles of so called free trade by which the commercial affairs of this country are regulated, and its operation presents equally anomalous results. The British producer is compelled to fight his foreign competitors, even in British markets, with his hands tied; and in like manner the registered pharmacist, after being required to undergo a special training and pass a State examination, is exposed to the competition of traders who are allowed to practise his profession without having incurred the trouble and expense of qualifying for it. Whether the remedy recommended to the Pharmaceutical Conference—viz., to render illegal the retail sale of the simple and compound drugs of the British Pharmacopæia by any hut registered chemists and druggists or medical practitioners—is not too drastic in so far as it affects the vending of patent medicines may be open to doubt, but it has at all events the double merit of simplicity and thorough efficiency.

The Globe says:

What is required is, obviously, to alter the Act of 1868 so that it may fulfil the intention with which it was passed. The unregistered tradesman must not only be forbidden to assume the title of a druggist, but he must he effectually restrained from selling drugs.

THE IMPORTATION OF CARBOLIC ACID into Holland, either in liquid or solid form, is henceforth, according to an order of the Netherlands Finance Minister, to he permitted duty free.

HALFPENNY POSTAGE-STAMPS FOR RECEIPTS .- A correspondent of the Times writes that, desiring to know for certain whether two halfpenny postage stamps might be legally accepted in receipts for payments of and above 21., he has communicated with the Commissioners of Inland Revenue, and received the following answer:-"Inland Revenue, September 22.—Sir,—In reply to your letter of the 18th inst., I have to acquaint you that, under the 13th section of the Act 45 and 46 Vict. c. 72, two halfpenny postage-stamps may be used to denote the duty on a receipt. -I am, sir, your obedient servant, F. L. ROBINSON.'

THE SALE OF POISONS.

DISCUSSION AT THE SOCIAL SCIENCE CONGESS.

NE of the subjects dealt with at the recent meet of the Social Science Congress at Huddersfield, was t sale o poisons. This was treated in the Crimes Section of the Sti inst., by papers from Dr. Meymott Tidy, and Mr. G. athon Browne, the first from a medical and the second fro a legal point of view, replying to the question "Can the lavegular ing the sale of poisons he amended so as more effectally t prevent their employment for criminal purposes?"

Dr. Tidy gave at considerable length very clear tails o all the laws concerning the sale and employment o poison Then he asked how far the objects of the legislature torever crime were served by the present state of the law rulatin the sale of poison? On this point he said, "We on never entirely prevent, by any possible legislation, poiss frogetting into the hands of those who have made p the minds to get them and to use them improperly. We ca only do our best to throw the greatest possible diffilties i the way of their obtaining them, and to impose sh con ditions that in the event of their criminal employent, w have at any rate some chance of discovering the minal Perfect efficiency is impossible. Nor do I think n th matter, knowing the absolute impossibility of perfe legi lation, that we should attempt to over-legislate. or, c the one hand, over-legislation would draw an arunt of attention to a subject which, in my humble judgme (and speak with not a little experience), the less know by the general public the better; whilst to the educated d wel informed other difficulties may arise. Things may one this, that we shall be afraid to live for fear we die.

And now for the Act regulating the sale of poiso word poison, I have said, is not defined, but the arion hodies designated as poisons within the meaning of he Ac are scheduled.

I object in toto to this scheduling. It serves draw attention to a number of drugs that had much bett not b recited. The schedule is a most remarkable docur it. is, I said, divided into two parts. When the oisor enumerated in Part I. are sold, the buyer must be lown t the seller, or be introduced to the seller hy some erson known to him, and detailed entries in the poisons lok at required-whilst in the case of poisons under Part , suc precautions are deemed unnecessary. Let me give ou a example. If I go to a chemist and ask for some meti tartar (a poison undoubtedly, but one that, owin to it emetic properties, as often fails to kill as not), eithel mus be known to the chemist, or I must take an introduction t him from someone that he knows. In such case, meover he enters in his poison book my name and addres or th name and address I choose to give him, the nate an quantity of the article sold, and the purpose for high. choose to tell him I want it—all of which details ust b duly attested. But if I go to him for some opiumo suc precautions are needed.

Again, if I go to a chemist for some corrosive silimat or morphia, or for some cantharides, I must be k wn (introduced, and due entries recorded. If I ask for prepa ration of corrosive sublimate or for a preparation of mphi (and a preparation may contain any percentage of thactiv agent), or for some tincture of cantharides, I need eithe he known nor introduced, nor will any written scord

against me be preserved.

Again, all poisonous vegetable alkaloids and the salt are (very rightly) included in Part I. But the force f thi is lessened by a few vegetable alkaloids being sciall named (viz. aconite, atrophine, strychnine), all o which poisons are included in the phrase poisonous vegetat alka whe loids. Well, it may be argued, there is no harm that the le But there is this harm, that there are certain boos no and specially named, and the naming some and not ours in the undouhtedly a disadvantage.

The exact meaning of the word preparation is when the defined. Anything may he held to be a preparati of substance. Preparations of prussic acid are, for emple specially named, a phrase to my mind far from explt. salt of a substance is often termed in ordinary langue preparation of that substance. Thus sulphate of rphi mit be and often is termed a preparation of morphia. At sine and its preparations are included in Part I. Bellado and its preparations in Part II. Morphia would be in led amongst the poisonous vegetable alkaloids in Part I hough why it should not be specially named I don't m stand, seeing that strychnine and atropine are); the hat therefore, must be personally known or introduced. Bon the purchase of preparations of morphia no such pro utionary measures are demanded.

the schedule errs by sins of omission. I shall not be and of egotism if I claim some experience for many years, pupil, assistant, and colleague of Henry Letheby, and sin his death on my own account, with the subject of to is and poisoning. Recalling a personal experience of a many years, it is remarkable that the two poisons wh in my experience have been used more frequently sui ally and homicidally than any others, and two poisons, mo ver, of the most deadly nature, are not included in the We ule at all. I refer to carbolic acid and phosphorus.

hask what remedy have you to suggest? I answer, De: a poison, accurately and scientifically, and omit the schole. It is unadvisable as a preventive measure (I am muced) to publish a list of poisons. Whilst if such a list prepared, no matter how carefully, it is sure to offer

aboant material for legal quibbles.

Vit has been the result of all this scheduling and this Par. and Part II. legislation? That the Act is at the met time not carried out in its entirety, and I almost ven'e to say is an impossible Act to be carried out. Striv it was not carried out, even by one of the chief of Lorn pharmacists, in the purchase of the aconitine used with nich fatal effect by Lamson. The fact is anybody (with alie trouble, perhaps, but with very little) can get almost any ng they want, and in almost any quantity. Fancy a worr being able to purchase five pints of laudanum at

one op. I tell of that I can vouch.

Oxlegislation has in this case proved under-legislation. Sim fy, I say, the whole thing. Define a poison, and then omill schedules of names. Require that the sale shall be their of a pharmaceutical chemist only and require the pharacist to keep a record of the sale, the person's name and dress, and the object as stated for which it is required. The armaceutical chemist of to day, it must be remember is an educated man, and legislation must be intelligeniegislation, applicable to intelligent and educated phaseists. Enough records must be kept to throw difficall in the way of persons procuring poisons for improper purjes, but not too many records, lest too many may mean int long run none at all. Further, it may fairly be taken for inted that with the present race of pharmacists some littl adgment will be used in the sale of poisonous preparation or which judgment no Act of Parliament can provide. It wild be absurd to apply poison regulations to such things as a pium plaster or a Dover's powder, or medicinal doses of 17. cretæ c. opio, a paregoric—all of which are preparatic of the poison opium. Any legislation is sure to fail wile you credit the pharmacist with a certain amount of om n sense in his commercial proceedings.

Datidy's definition of a poison would be "anything whit otherwise than by the agency of heat or electricity, is cable of destroying life either by chemical action on the trues of the living body, or by physiological action from

abso ion into the living system.

Didy would have the pharmacist keep a record of all sales poisons as now, and he would only suggest in regard to lalling that the label should be a red one. He would applifications to medical practitioners, veterinary surgis, wholesale druggists, and drysalters. He would havene Royal College of Physicians and the Pharmaceutical soci agree together as to special bottles and labelling for ments, &c., and he would prohibit altogether the sale by gers, oilmen, and others of the various vermin-killers, phosorus paste, sheep washings, agricultural solutions, acid, &c., and savin, lobelia, &c., by herbalists.

Ley, he urges, with much earnestness, that regulations for sing poisons should be agreed to, such as were pro-Pose y the Pharmaceutical Council in 1869. He believes 10 spem of espionage would be necessary, and he would makine regulations apply to medical men who compound as weas prescribe, to veterinary surgeons, and to wholesalc

drug ts as well as to pharmacists.

Mr. Browne is one of the authors of the volume on "Trials for Murder by Poisoning," lately reviewed in this Joarnal. His contribution also gave a summary of the existing law and of the proposals made in the Pharmacy Acts Amendment Bill as regards the sale of poisons. He entirely supports the proposals respecting patent medicines, and he would go further and permit no secret medicine to be sold unless it had been approved by a Government official, as is done in Japan. He also agrees with the circular issued by us that carbolic acid should be among the poisons to be sold only by certified chemists.

The following discussion ensued:-

Dr. BENDELACK HEWETSON, London, said that some restriction should be placed upon the sale of quack medicines, many of which contained deleterious drugs, and also upon the wholesale sale of poisons for manufacturing purposes, for if the lives of workmen engaged in such manufac ures was not absolutely threatened great injury

was of en done to their general health.

Mr. RICHARD SMITH, Lynn, referring to Dr. Tidy's pronosal to abolish the schedule of poisons and substitute for it a definition, said the question of internal or external use would have to be considered; for instance, all anilines would be essentially poisons if taken internally. If the schedule were done away with and each chemist left to form his own judgment as to what was, or was not, a poison, the latter would be under a constant temptation to please his customers by making as few inquiries as possible. What was a poison on one side of the street might not, perhaps, be a poison on the other, and trade would naturally flow to that chemist who made least difficulty about supplying his customers with what they wanted. He agreed that general practitioners and veterinary surgeons should be made to submit to some kind of restriction: and he would even go further than Dr. Tidy had suggested in cases where a prescription contained a deadly poison. He would make it compulsory upon the general practitioner to have it dispensed by a certified pharmacist.

Mr. MICHAEL CARTEIGHE, President of the Pharmacentical Society, said that Dr. Tidy looked at the question more from the point of view of the Public Prosecutor and analytical chemist than from that of practical, everyday life. In a country in which poisons were used to such an enormous extent for manufacturing purposes, it was practically impossible to achieve perfect safety with the sale of them. Dr. Tidy had loss sight of the lines upon which legislation had hitherto been conducted with reference to this subject. It had been laid down as a principle, not only by the advice of the Pharmaceutical Society, but also by the medical advisers of the Government, that it was impossible to prevent criminal poisoning any more than one man could be prevented from shooting another. The aim of legislation had not been to prevent criminal poisoning, but to provide every facility for bringing the offender to justice. The chief security against the sale of poisons for criminal purposes lay in the intelligence of the seller. In France the law with regard to the sale of poisonous drugs was very much what Dr. Tidy would make it; but from his (the speaker's) inquiries among French pharmaciens he found, as he expected, that it was practically evaded with the tacit consent of both buyer and seller.

DR. TIDY, in reply, admitted the force of the objection raised by Mr. Smith to the abolition of the schedule, but said that the question resolved itself into a balance of difficulties. If the sale of poisons was taken out of the hands of herbalists, quack doctors, grocers, and oilmen, and limited to qualified pharmacists, he thought that the latter might be intrusted with as much freedom in the use of their individual judgment as was consistent with their improved edu-

cation as a body.

BARROW EVANS (LIMITED) .- A prospectus of this company has been issued, capital 50,000l, in shares of 1l. each. Incorporated to manufacture and sell Barrow Evans' hair restorer, and other specialties. The purchase money is 25,000l., two-thirds in fully paid-up shares. The vendors guarantee a dividend of 10 per cent. for three years. The first directors are Messrs. Samuel Saddington, of Saddington & Co, John Lorimer, of Lorimer & Co., Wm. Higginbottom, J.P., Joseph Allen, Captain J. W. Clarke, and Edwin Belfield.



OFFICE-42 CANNON STREET, LONDON, E.C.

"SANITAS." THE BEST DISINFECTANT.

Non-Poisonous. Colourless. Gives no Stain. Fragrant.

Fluid; Oil; Powder; Hard, Soft, Brown Windsor, and Toilet Soaps; Ointment; Veterinary Ointment; Tooth Powder; Toilet Powder; Toilet Fluid; Furniture Cream; Antiseptic Gauze; Fumigators.

THE SANITAS DISINFECTANTS ARE IN USE BY 600 PUBLIC HEALTH BODIES.

Liberal Terms, Show Cards and Bills to the Trade.

So's Manufacturers. The "Sanitas" Co., Limited, Bethnal Green, E.

SEE SEABURY & JOHNSON'S Advertisement of INDIA-RUBBER POROUS AND SPREAD PLASTERS on page 139.

ANALYTICAL CHEMISTS.

See page 40.

PURE CRUSHED LINSEED

10s, per cwt. net, bag included; in 7,14,28,56 lbs., 20s. per cwt., delivere I free in London, and in Tins, 4s. per doz. BEST QUALITY; NO OIL EXTRACTED. Carefully cleaned and ground so as to retain the natural colour of the Seed without being heated.

PURE STARCH POWDER

Per cwt., nct., 28s., delivered free in London, in 7-lb., 14-lb., 28-lb. 56-lb. and 1-cwt. Bags.

PURE FULLERS EARTH

Finest powdered, 14s. per cwt; in 7,14, 28, 56 lb. Packagas, 16s. per cwt., delivered free in London. Samples post free.

G. S. MUMFOPO, STEAM MILLS, FARRINGDON ROAD, LONDON, E.C.

SCHIEFFELIN'S SOLUBLE PILLS. See page 122.

SOUTH LINE DO POPODE LIPES.

HERBERT & GODFREY'S Aqua Crystal See page 37.

 ♦ All Chemists are invited to apply for a Copy of our
 ♦

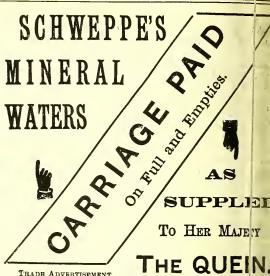
 WHOLESALE PRICE LIST OF
 ♦

HOMŒOPATHIC MEDICINES,

Mother Tinetures, Pilules, Globules, Sugar of Milk, Medicine Chests and Cases, Bott es, Cardboard Goods, and all Sundries connected with the Homoopathic Business.

W. BUTCHER & CO.,

WHOLESALE AND EXPORT HOMEOPATHIC CHEMISTS, 315 Regent St., W.; & Spencer Place, Blackheath, S.E.



TRADE ADVERTISEMENT.
PRICE LIST ON APPLICATION.

51 BERNERS STREET, LONDON.

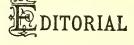
INK AT WHOLESALE PRICE, See page 41.

HAY'S SOLUBLE ESSENCE OF GINGER. Spage (

HAY'S GINGER CHAMPAGNE.

See page 58.

HAY'S SOLUBLE ESSENCE OF LEMON. Spage 5





THE BRITISH PHARMACEUTCAL CONFERENCE.

Professor Attfield's address was again the eadin feature of the meeting of the British Pharmaceut al Co ference. In itself it was an innovation-the firs of t series that has dealt directly with pharmaceutica oliti Contrary to precedent, members rose one after a ther discuss it, though the battle was all on one side. Tse w disagreed with it evidently felt the fetters of custo, whi its adherents luxuriated in its elaborate dolefuln . T last word has not been said about it. Its success ingaining the ear of the press has been astounding; but thi passi newspaper fame has been won at some cost to the ienti character which the Association had previously w. T address has committed the Conference-a purely ienti and social body-to a course of political action; the ght has been dexterously veiled by a proposal that i ivide members should be the agents for distributing copi of t address to their local members of Parliament, theost printing being defrayed by the Conference funds. Is to hoped, too, that any future President who feels in ned deal in his address with debateable matter wi inv. discussion. It is delightful to hear from the poit a admirable expression of our private convictions, t wh the convictions are not our own the process becomes ve like that test of Christian virtue, the endurance ru "contradiction of sinners in high places."

Both of the address and of the social work of the conference we have spoken elsewhere. We will only asso aga our growing conviction that a fixed charge to each temb

fall entertainments would do much to strengthen the cerence on its social side.

e scientific work was up to the average, and in mary d tions indicated a real advance in knowledge. A report hir. A. H. Jackson, B.Sc., showed that a toilsome and ov investigation had yielded disappointing results. The of cinnamon and cassia are chemically so much alike thit seems hopeless to look for any test that will distingil them. This, however, is a gain, though a negative Mr. H. G. Greenish has begun a research on the bitter or iples of the sweet scented oleander, an Indian shrub. Thext two reports were by Messrs. W. R. Dunstan, F.C.S., an F. W. Short. Ferrocyanide of strychnine crystallises colletely from dilute acid solutions of mixtures of the albids strychnine and brucine, the latter remaining in solon. By a second crystallisation the strychnine ferrograde can be obtained perfectly free from brucine. On the facts is based a process for quantitative separation and estation of the two alkaloids. An interesting bye-product of a research was the observation that the ordinary bic) mate and sulphuric acid colour-test for strychnine was qui unreliable in presence of large quantities of brucine. The cond report showed with new emphasis the previouslyest ished fact that commercial tincture of nux-vomica var enormously in its alkaloidal strength. Professor Onian opened endless vistas of discussion in his paper on ilage. He had tried the preservative effect of tamping freenedicinal herbs in bottles, sealing them hermetically, andurying them. The results, so far as they go, are satictory, but it was pointed out in the discussion that the cofessor's process, whatever it might be, was not ens. e. The latter requires for perfection the admission of: and a certain degree of fermentation; both were igo isly excluded in his experiments. Tinctures, the use of a hol in preserving juices, the legitimacy of substituting one icle for another, better in the dispenser's opinion, and otherples of discord were freely scattered on the arena, but iciously gathered up by the President. The mullein plan as next introduced as a curative or palliative remedy incs of phthisis, and again the Professor emphasised his nationality by a curious little historical disquisition, showing that usumption was unknown in Ireland before the advent of t Saxon. Mr. W. A. H. Naylor has advanced our movinge of the bitter principles of Hymenodictyon come steps further, and is continuing his investigatic. Mr. Willmott gave the results of a long series of experients on ointment bases, which had extended over four five years. The point chiefly dealt with was the computive permanence of ointments when made with differt bases, the question of therapcutic efficacy being left touched. The author was not satisfied with any ointrut which would not keep good four or five years, thou most pharmacists would be less exacting. For most purp(3 a compound of yellow wax and oil and the petroim bases are least liable to change. The latter, contrary, general opinion, are found to develop an unpleasant odowind at times have an irritant effect on tender skips. Next; these comes benzoated lard for general use; lard prepal in different ways and mixtures of white wax and oil a; much inferior. Mr. Siebold waxed eloquent in compang the tests for the strength of hydrocyanic acid order in the British and United States Pharmacopæias. The ter substitutes magnesia for soda, and continues titrat; with decinormal nitrate of silver solution till the wholef the eyanogen is precipitated as silver cyanide, require twice as much of the volumetric solution. This lactine chief advantage of the process, which will not replac hat of the British Pharmacopoxia. Mr. Stanford

has taken up the question of the presence of iodine in codliver oil, and is extending it. He finds that the results given by most previous investigators are much too large: that cod-liver oil does contain iodine, cod liver more, and codfish still more. Herrings and all other fish as vet examined yield iodine, and Scotch herring is perhaps the richest source known for it. Mr. M. Conroy and Mr. Maben then reported on the suitability of sesame oil for pharmaceutical purposes. For most of these it is too limpid, vielding lead plasters too soft, viscid, and rapidly rancidifying. It seems likely to serve as a substitute for almond. but not for olive, oil. Mr. Holmes communicated some new information he had received from Mr. Jamie, of Singapore, concerning the source of Siam benzoin, and exhibited some beautiful specimens. Mr. Dott has reinvestigated the state of combination in which morphia exists in opium. believes that the sulphate, meconate, and perhaps the acid meconate are all present. Mr. A. C. Abraham added another to the unnumbered list of papers on what Professor Attfield calls the chameleon of pharmacy—sweet spirit of nitre. He doubted the assumption that the British Pharmacopæia process owed its virtues to the formation of nitrous acid, and suspected that the increase of the boilingpoint, owing to the presence of sulphuric acid, gradually modified as the process continued by the combination of the acid with the copper, and the gradual liberation of the nitric acid from copper nitrate were really the two causes of the steadiness of action and uniformity of temperature which characterise it. He tested this by various experiments, and proved his position. In the discussion that followed Mr. Williams showed clearly that sweet spirit of nitre was a simple solution of neither nitrous ether nor of aldehyde, and suggested that it was more probably a solution of paraldehyde, a polymeride of aldchyde, three volumes of which are condensed into one of the new body. Mr. E. Davies read a useful paper on asphalts and pitches of commerce, supplying data which will make their identification easier. Mr. Siebold next described a new process for preparing a palatable dose of pomegranate for use as an anthelmintie. Six ounces of the powdered drug are exhausted with 7 pints of water, treated with lead to remove the organic acids, the lead precipitated with sulphuretted hydrogen, and the clear solution then evaporated down for a single dose. If this preparation comes into general use, and has to be freshly made when required, good times are coming for pharmacy, as the President suggested. Mr. Conroy had just met with so-called virgin scammony, which was adulterated or rather falsified by the addition of a large quantity of resin made from the root. This is easily recognised by its characteristic leathery odour. Mr. T. B. Groves, stirred up by Dr. Squibb's paper "On the Pharmacy of Aconite," wrote to urge the adoption of crytalline nap-aconitine from Aconitum napellus as the basis of all pharmaceutical preparations. He showed how it might be isolated, and suggested the manufacture of a series of preparations of it guaranteed by physiological experi-He omitted to notice the question, if all the medicinal virtues of aconite-root are contained in nap-aconitine, Messrs. Davies and Schmidt had critically examined Dr. Easton's formula for his syrup, and found that the quantities ordered could not possibly yield the amount of quinine and other ingredients claimed to exist in good samples of the syrup. A sample made strictly according to the formula was found to yield nearly the amount required by chemical theory. Commercial samples were found to vary considerably, one containing thrice as much strychnine as it ought. Mr. A. W. Gerrard has separated and investigated the odorous principle of henbanc leaves. He finds that it

contains butyric acid, and is probably either a butyric ether or a butyrin.

The election of the officers for the ensuing year resulted in the choice of Mr. John Williams, F.C.S., as President, a choice which has already proved its popularity. Hastings was selected as the place of meeting for 1884. Aberdeen will probably be chosen for 1885.

A COLLEGE PHARMACEUTICAL COURSE.

THE Owens College, Manchester, has just published the prospectus of the Pharmaceutical Course established there. It is adapted to the requirements of pharmaceutical students. The instruction will be chiefly practical, and will be given in the laboratories of the College. The course will be divided into two parts, which may be attended in consecutive sessions: 1, chemistry and botany; 2, materia medica, pharmaceutical chemistry, and pharmacy. There will be both day and evening classes in chemistry and botany, evening classes only in the other subjects unless a sufficient number of students present themselves.

The evening classes in chemistry are divided. Prof. Roscoe takes the non-metallic elements on Mondays at 8 p.m. Mr. Arthur Smithells, B.Sc., takes the metals on Fridays; fee for both courses one guinea. Practical chemistry, for the first year's course, is taught on Monday and Friday evenings from 6 to 8 p.m., fee four guineas. Botany is taught by Prof. Williamson on alternate Wednesdays at 7 p.m., fee one guinea. Materia medica and pharmacognosy are taught by Prof. Leech and Mr. W. Elborne on Tuesdays and Thursdays at 8 p.m., fee one guinea. Mr. W. Elborne will lecture on pharmacy and dispensing on Wednesdays and Thursdays at 6 p.m., the instruction being practical, and including the manufacture of all classes of pharmaceutical preparations, prescription reading, and dispensing; fee three guineas. Pharmaceutical chemistry will be taught by the same gentleman on Mondays and Fridays at 8 p.m., fee onc guinea.

The introduction into a College course of complete instruction for pharmaceutical students is a new and practical step worthy of the traditions of Owens College. It has, perhaps, more real significance for the future of pharmacy than many of the schemes elaborated with so much discussion in the very nest of the profession. It either is a sign, or will be a cause, of a real elevation of the status of pharmacists.

AMERICAN PHARMACEUTICAL ASSOCIATION.

THE meetings of the American Pharmaceutical Association were just concluding when our last number left the press. It was held at Washington, the meetings taking place at the Sm thsonian Institution. The proceedings lasted from September 11 to 15; one three-hours' session was held each day, the rest of the time being given up to what the circular calls "accessory pleasures." On the first day the President's address was delivered after a welcome by General West, Commissioner for the District of Columbia, the ladies being entertained by a special visit to Corcoran's Art Galleries. A concert was given in the evening. On the second day came election of officers, reports of committees, with a visit to the Pharmaceutical Exhibition at the National Museum, a visit to the Sailors' Home and Park, and a ball and reception in the evening. On the 13th there was a visit to the U.S. Treasury, Patent Office, and other Government buildings, with an afternoon session for the reading of papers, followed at half-an-hour's interval by a banquet-menus printed on satin; later in the evening was a ladies' special

entertainment, music, singing, reading, and ice-creat Next day there was a morning session for reading papers, a excursion down the Potomac to Mount Vernon, Washington home with an entertainment provided by the Washington comists On September 15, "home, sweet home, and exc sions." Mr. R. J. Seabury has sent us specimens of the adgesting coupon tickets, and other matters printed for th Enter-att tainment Committee, of which his brother is a movin spirited About 260 members attended the meetings, whil were the presided over by President Heinitsh. The Commee on Legislation reported the unconditional repeal of le Santia Francisco Drug Law, which applied to the city and ountymes and had been passed in 1876. The new President's Mr. W. S. Thompson, of Washington. The Treasurer re rted as H balance in hand of \$4,196.58 in the general fund and \$829.5 in the special funds. The Ebert prize was bestowed 1 Prof J. U. Lloyd, for his paper on "Fluid Extracts." Anotion was referred to the Council to ask Congress t spend \$25,000 "on the introduction of foreign medicins plant and the better protection of native medicinal ants. The Association has decided to deposit its collection in the National Museum. A committee was appointed to ollate unofficial formulæ. The report of the Entertainmen Com mittee occasioned a long discussion, and finally t wa resolved that hereafter the Committee's programm must be submitted to the Council for approval. The Counitte was not re-appointed, the matter being left to the uncil but it is thought that it will be difficult to persua com petent men to accept the somewhat thankless office. Nineteen papers were read, but although a report has sched us from Professor Bedford, it is crowded out by atters nearer home. The museum contained exhibits fre fifty different firms, and was well attended.

THE PROPOSED INTERNATIVAL PHARMACEUTICAL CONGRES AT BRUSSELS.

THE Journal de Pharmacie d'Anvers publishes in i issue for September the official report of a meeting of the Asso ciation Generale Pharmaceutique de Belgique," eld a Brussels in November, 1882. We do not mention is fac as an illustration of journalistic enterprise, but on coun of a passage in the report relating to the propose Intel national Pharmaceutical Congress, which it has be proposed to hold in Brussels in 1884. This resolute wa mentioned in the report "not without a certain pri," an it was proposed to apply to the Government for gran towards the expenses of the assembly. The Gov men had, it appears, made a grant for the International edica Congress in 1879, and had promised one for th Inter national Veterinary Congress of 1883. One of the sakers however-M. van de Vyvere-in discussing the bjec was referred to several other congresses towards with the Government had declined to contribute, and he lieved that without a grant they would find themselves i such the difficulty that he thought it would be worth cor lerin land whether they should not ask that the organisatio of the Congress should be transferred to the pharmaceuti asso ciation of a State more important than Belgium. In thir M. Gille, who was one of the Belgian delegates in ondor remarked that it was the foreign members of the ogres who decided to meet at Brussels, and that they so cide win in spite of the protestations of the Belgian d gater with which were lost amid the general acclamations. In hit by to suggestion, however, the matter was referred to mittee to see what could be done.

We know not who is the "organ" of the Congris but a not it was we do know that to many who would go from Ea and it a not

we' be very preferable not to be "entertained." The entainment system is the blight on all such assemblies, an dese will never be truly successful until it is rigidly disintenanced. A local committee to draw up a progn me and make arrangements is of course desirable; but excerson taking part in the proceedings should pay his faithare. In those congresses where this is done large such has been attained, and an occasional, even an anti, gathering of European pharmacists conducted on such plan would be pleasant and profitable. But it cannot permanent if the burden, so light if distributed, is that upon a section, including many uninterested in the object that the congress.

THE HANBURY MEDAL.

WE very glad that the Hanbury Gold Medal, the highest dist tion which can be conferred on a pharmacologist as such as been this year bestowed on Mr. John Eliot Howard. Afte he death of Daniel Hanbury, in 1875, it was considered that me English official memorial of him was desirable. He d, without dispute and almost, it seemed, without effor luring his life the highest position in the world as analority on materia medica. He had done so much to alve and spread the knowledge to which he had devoted his at abilities and opportunities, that it was impossible for giving pharmacists not to mark by some memorial their use of appreciation of his labours and respect for his mem. The method chosen was excellent. A sum was raise sufficient to yield some 201, to 251, every two years, and the this a handsome gold medal is awarded to the man no is considered to have done the best work in origil research in the natural history and chemistry of ing The first medal was awarded in 1881 to Professor Hid er, who had been Mr. Hanbury's colleague in some of high important work. The selection is made by the hesints of the Chemical, Linnean, and Pharmaceutical Socies, and of the Pharmaceutical Conference, with one phan sentical chemist. They are to choose from the wide world nd those who have any knowledge of scientific men of the resent day will recognise that there is more danger of suca committee giving an undue preference to foreigners than Englishmen. In selecting Mr. Howard they have made choice which pharmacists all over the world will endor Mr. Howard's studies of the cinchonas have been wthough, so minute, and so intelligent, as to make them of theighest importance, not to pharmacy only, but to the wealt and benefit of the civilised world. His co-workers in these, field would be the first to acknowledge the ineslimativalue of his scientific labours, directed as these have been la practical knowledge of what was aimed at.

In senting the medal to Mr. Howard, on October 3, the Preside of the Pharmaceutical Society said: "He had before in three volumes with which Mr. Howard was more of less senting of no less than forty-two species of cinchona These, with many others, had been studied by Mr. Howar for many years at an enormous expense, for the best of only of those who were interested in pharmacology at a 1 mankind. For, having regard to the value of the best themselves, and the alkaloid quinine, it would have in impossible for the Government of India and private of bark in Ceylon to have carried on their operatis with satisfaction and certainty, if they had not been steel from first to last by Mr. Howard, and the skill be had-ought to bear upon the whole subject."

Mr. ward said, iu acknowledging the honour, "he was parlicular gratified at receiving this medal, because it reminde im of the great assistance and sympathy he had

received from the illustrious man in whose honour it was founded. His own love for science had sprung up spontaneously, and he followed it, not with any expectation of reward, but simply from the pleasure it afforded him. But he was induced to publish the results of his observations more by Mr. Hanbury than any one else. He trusted they would all find the same interest that he had found in the study of the works of the great Creator, and that they would all feel that which he would particularly seek to impress upon them, that there was no real contradiction between Christianity and science. For himself, he considered it the highest honour to be a Christian."

THE ADULTERATION OF DRUGS.

In its issue of the 6th inst., the Lancet celebrates its sixty-first anniversary; and claims, as the deliberate intention of its founder, Mr. Wakley, a feature which has been one of its marked characteristics for many years, namely that of writing to and at the public. What its circulation is among the public we do not profess to judge, but we know it has a goodly number of readers in the persons of newspaper subeditors, who scan its pages every week, and are invariably rewarded with one or two or more paragraphs written for their special behoof. Mr. Punch, the other day, compared it to the priest who cursed the jackdaw of Rheims: it warns us against eating and drinking and everything else. No one ever heeds it, yet nobody seems one penny the worse. It needs no critical eye to distinguish the paragraphs written at the public.

All this would not be worth saying, but that the same number contains a good specimen of this article, which nearly affects the general character of pharmacists. editorial article is devoted to the subject of the adulteration of drugs, insinuating that the drugs supplied for medicinal use are unreliable. The Lancet is far too cautious to make any definite assertions that could be tested. The article occupies nearly a page. The facts it is based on are that the Lancet would like to feel more assured than it does of the tolerable purity of medicines; that pharmacy has enormously developed during the last fifteen years, and physicians know little or nothing about it; that standard text-books treat very lightly of the adulteration of drugs, Squire's "Companion" being cited as a conspicuous example; that in former times the Society of Apothecaries and the Royal College of Physicians were required to visit drug shops within seven miles of London and examine the quality of the goods sold there. "It is quite possible," says the Lancet, "that the notion of adulteration is exaggerated." This sentence needs only the alteration of one word-"certain" instead of "possible"—to make it strictly accurate. It says further: "We do not pretend to indicate with any precision the exact state of the case as regards the adulteration of drugs;" which is wise, for the whole tone of the article betrays the writer's want of familiarity with the subjec .

The absence of allusion to the adulteration of drugs in books in the writer's library admits of three explanations: First, that the right books are not there; Flückiger and Hanbury's "Pharmacographia" gives paragraphs on commercial adulteration. Secondly, that so far as doctors are concerned adulteration does not exist, physicians' prescriptions being invariably dispensed with drugs and preparations of fair quality. Thirdly, the writer's conclusion—quite mistaken—that the subject of the adulteration of drugs is neglected: pharmaceutical literature teems with articles on the adulteration of drugs, as medical literature is now alive with bacteria. But the inference is not that orugs are extensively adulterated, but that pharmacists are so vigilant that adulteration cannot show itself without detection and exposure

The practical conclusion the Lancet reaches is that "the Pharmaceutical Society, in co-operation with the College of Physicians, may reasonably be asked to undertake the inspection of drug shops. The exposure of the adulteration of food, first undertaken by ourselves with great public advantage, is now in a formal way—alas! too formal a way—the legal duty of public analysts; and so, too, is that of drugs. But as a means of exposing the adulteration of drugs, the Sale of Food and Drugs Act is practically useless. We must look for better work in this direction to that amendment of the Pharmacy Act which Professor Attfield showed lately to be so necessary in the public interest. It needs to be done, and theroughly and systematically, at any rate on such a scale that both wholesale and retail druggists will have decided interest in guarding the purity of their drugs."

The Lancet does not know that a committee is in existence in connection with the Pharmaceutical Society, whose duty is to watch over the purity of drugs in the wholesale markets before they reach the pharmacist. The utterly impracticable nature of its suggestion does not trouble its serene infallibility. It does not even understand the Sale of Food and Drugs Act, and s'ill confuses the duties of inspectors who have to expose and of analysts who have simply to report on the adulteration of foods. With such incompetent knowledge of the subject the Lancet allows some anonymous writer to use its influential position to cast a slur upon a class of men who are more dependent than most others on the confidence of the public. We repeat, the use of adulterated drugs in the dispensing of physicians' prescriptions is unknown; that it is equally unknown with regard to drugs sold to the public by respectable pharmacists; that only those need fear it who are smitten with the itch of avarice, which takes them to cheap shops whose owners will assume no responsibility.

THE PROTECTION OF PHARMACY.

EARLY this year we were told by all those who spoke authoritatively for the Pharmaceutical Council that it would imperil the chance of getting any amendment of the Pharmacy Act to even ask the Privy Council to support a clause adding carbolic acid and a few other well-defined poisons to the list of substances which may be sold by registered chemists and druggists only. Now we have the President of the British Pharmaceutical Conference urging on pharmacists, on Parliament, on the press, and on the public, not a trifling limitation of the sale of some dozen or two poisons, but a complete monopoly of the whole retail trade in drugs. And he declares that he has no manner of doubt that if for one short hour the attention of every thinking man in this nation could be gained to this subject, such a revolution would be carried forthwith. Either the spokesmen of the Pharmaceutical Council, or the selected ora or of the Pharmaceutical Conference, must have gone far astray in reading the signs of the times.

Professor Attaeld's claim for British pharmacy is not new: it has been made in scores of letters and speeches, and anyone who vigorously presses it is always sure of a sympathetic response. But this is certainly the first time the demand has been made with such clear definition and from such an important platform. Coming from a man in such a position as Professor Attifield holds, and from one of such recognised ability and life-long devotion to pharmaceutical interests, it deserves at least respectful attention.

The claim is, then, that in the interes's of the public trained and qualified pharmacists should have the exclusive right of supplying medicines. It is not necessary to consider the slight exceptions which would have to be permitted to provide for the needs of districts where

a pharmacist could not make a living. At le out Professor Attfield assumes that it was the interpretation of the Legislature in 1868 to bring about such a says:—"The endeavour of the British Legislature profession of the proper supply of trustworthy drugs to the being seriously thwarted;" that when Parliame that only duly qualified persons should take the the chemist and druggist, and practise under it, it was seen that unqualified and unregistered persons right acceptant, further on, after showing that in various rest of the as "persons openly defying the spirit of the Acceptant of the Legislature and of the Stat"

On this assumption Dr. Attfield's argument's mail based; and, however we may regret it, we she have recognise sooner or later that it is an assumpti which by no means justifiable, and we cannot peeive advantage in shutting our eyes to the fact. 'ere is the a particle of evidence to prove that any memor of liament, nor anyone else, had the intention of precting trade in drugs; on the ecntrary, there is abunda evidence to show that they intended to do just what the did a must namely, to protect the title of chemist and digist, want thus give the public a guarantee that any perin calinary himself a "chemist and druggist" was competer to harming with safety the articles in which he dealt. A sintar pointent has been pursued since in regard to dentists and eteritable surgeons; while, in regard to medical practitiers, judge perfectly understood that no Medical Bill could be in a him House of Commons for a day if it proposed to more dural the profession than protect its titles from infring lent. In

We believe, then, that the theory that the Le latur: the or ever has been, animated with the same design to would pharmacy as Professor Attfield enunciates abandoned. The presumption of the almost opposition of Parliament to Lis scheme must be fad, an interest that be so, it only remains to be seen what arguints that are which it might be hoped would effect the coersional that body.

The case rests on this proposition:-That tout competition is becoming so severe, and is, in cerin ser so unfair, that pharmacy as a profession is rapidl become worthless, and that the public will wake up some i rning; rather, perhaps, in the middle of some night, to fil that consequence of its unwise patronage of stores a cub traders, there is no reliable place left where the cious genuine medicine can be obtained in the hou of n This argument is addressed to Parliament and to e pu and it is from their point of view that it must bregan We do not make light of the troubles of the arma but it must be borne clearly in mind that Parlia at w only regard the matter from the public's point o view, at present it is literally accurate to say that the diffic foreseen by Professor Attfield is absolutely problatic. there any hope that our legislaters, swamped thac grievances, will stop their work and pass a lawf an gether exceptional character to provide agains he p bility of a danger such as is suggested? A yal C mission to investigate the trouble is hinted at, a a ski is given of the evidence which could be laid be re such that body. We do not hesitate to say that the one pe of do le "evidence" which is given upsets the whole c m. 1811 that the number of registered chemis and degistrate Great Britain ten years ago was 13,216, while ow is a per 13,447. Allowing for the greater proportionate creas and population, and for the probability that of the latt nun somewhat fewer are in business for themself (the anst this must be set the fact that in the first number te more semi-pharmacists), considering all these condits, is there any possibility that any Royal Commission I deshare Professor Attfield's anxiety on behalf of the I lic? Most people are astonished that the proportion of macists to population has not been reduced to a much generate. Certainly, as far as present appearances go, a seems every reason to believe that the report of such a cuum anywhere as is imagined would very quickly bring that a competent pharmacist to fill it.

ne replies to the letter which Professor Attfield sent to 3 pharmacists scattered over Great Britain do not seem to wary convincing. In the first place, the letter shows, by itest paragraph, that the writer had made up his mind as tes conclusion before he began his inquiries. "I desire to ow," he says, "that it is to the direct interest of the pic that something should be done to prevent the rapidlyin asing sale of drugs by unregistered and incompetent pens." Next, the persons appealed to were all interested pages; and, thirdly, the information they give does not seem to coadd anything to our general stock of knowledge. Surely it's known already that drugs are sold in most districts by registered persons; that in some localities the value of sinesses was diminishing in consequence of the ruinous constition of greedy capitalists; and that in many places palas were carrying on businesses very similar to that of acnist, but without actually infringing the law. It is a littourious that out of the 300 persons addressed so many still have seemed regardless of this competition. There wellt appears, ninety-three who did not answer at all, fif ve who did not allude to the matter, though directly queoned, and six who had not experienced the effects of suc competition; that is to say, just a majority who pra cally announced that they had no particular grievance.

know and deeply deplore the fact that the trade of a the st and druggist has been of late years cruelly cut np by 3 great shopkeepers, who have professedly no other obje in view than to get a decent interest on their capital inveid. But other traders besides druggists have suffered not his new feature of retail business. Is there the remot gleam of possibility that Parliament will interfere to prest such a development of commerce? Many of the cruest, too, of these competitors in the drug trade are "thof our own household." How could they be checked? Dr. field says that the principles of free trade must be suspled when the health of the public is at stake. On that ound monopolies might just as reasonably be ad-You I for the milkman, for the baker, for the butcher, for the mber, and to a greater or less degree for all classes of trers. How can the innocent consumer know, when he dial is morning mill, that he is not absorbing the germs of tyoid fever? Should not the Government protect him from e danger? But how a monopoly even in milk or medie is going to guarantee the public perfect purity is what not explained, and what we fail to see. The interferen with the sale of deadly poisons is on the same level as the interference with the internal arrangements of theat, and should be so regarded; and it is not logical to ha upon that an argument for general protection.

We we too often urged action with a view of improving that sixting law to let it be supposed that we see no neces y for doing anything. There is much which may be reasonly asked for, and which the Government is desirous of doi with the co-operation of pharmacists themselves, if theitter are practicable. The response which Professor atties address has evoked in the press will show the Plan entical Council that they might at least be a little less tid in their demands. The public is quite willing to

protect itself, but responsible statesmen will want reasonable evidence of danger before embarking on such a policy as is proposed.

We cannot think that Dr. Attfield's address is likely to have a salutary influence on the trade. That it will bring to pass his ideal condition of things is, in our opinion, impossible; but that it will encourage the idea that some outside power onght to come to our aid, and the illusion that ere long some such relief will come, is pretty certain. Success in pharmacy is by no means impossible even in these days. We could name businesses which have doubled their value within the past ten years, but we should hardly care to base a theory on the prosperous condition of pharmacy on such isolated facts. But wherever such success has been attained it has been won by men who had special aptitude, either commercial or scientific, a qualification which the Legislature can neither give nor take away.

PROF. A. P. DE CANDOLLE offers a prize of 500f. for the best monograph on a genus or family of plants for competition for 1884. Papers in French, German, English, or Italian should be sent to Prof. Alph. de Candolle, Geneva, before October 1, 1884.

In a circular issued by the Standards Department of the Board of Trade to inspectors of weights and measures Mr. Chaney says, "There may therefore be grave doubt whether a local inspector would be justified in passing for use in trade measures which are overcrowded with graduations, as such measures would not correspond with the Board of Trade Standards."

THE Lancet makes a note, in quite unnecessary uncivil language, on the offer which we recently reported to have been made by Major Vaughan Morgan, the treasurer of the London Homeopathic Hospital, to contribute 5,000l. to St. George's Hospital if the managers would therewith make a fair test of homeopathy in its wards. The Lancet finds that proposal "unintentionally disrespectful in the highest degree to the medical profession. It assumes that there is something - in fact, a whole region of therapeutics neglected by responsible and educated physicians and surgeons." It most unquestionably does make that assumption, and Major Morgan, in a polite reply, points out what that "something" is which is neglected. He finds thousands of qualified medical men in the world practising the system and believing in it, and he claims that its principles have to a great extent permeated medical practice and literature. All he asks is that if this be a delusion it should be proved to be such by a fair test, and he offers the means for such an experiment.

Who invented compressed tablets for medicines? The glory is, perhaps, not very great; but, such as it is, it might as well be attributed to the right nation if not to the right person. Somebody reporting on the Zurich Exhibition in the Swiss *Pharmaceutical Journal*, speaks of some "compressed tablets manufactured by Mr. F. Hausmann, of St. Gall, similar to those originally manufactured in America." Whereupon Mr. Huber, of Basle, claims that the original invention came from Germany, if not from France. In 1874, he says, Professor Rosenthal, of Erlangen, suggested, in the Berlin Klin. Wochenschrift, that medicines might be compressed on a plan similar to that by which coffee had been treated in France for the army rations; that Mr. F. Baner, of Erlangen, carried out the professor's idea, and that he (Mr. Huber) nad improved the machine so as to obtain round pellets instead of flat tablets. He exhibited his products at the Paris Exhibition in 1878, and there for the first time met with the American article. Now, it seems to us that if neither Germany, France, America, nor Switzerland can go further back than 1874, England might put in a claim. There were such things as Brockedon's compressed tablets of bicarbonate of potash and soda bought and sold in this country long before 1874—how long we cannot say, and we do not know that these differed in any very essential respect, except in propulsive power, from their more modern rivals.

THE Pharmaccutical Record of New York, with a laudable desire to convey to its readers some information respecting the decrepit old nation which seems to have existed only for the purpose of giving birth to the great American race, has commissioned a certain Chauvinistic New Yorker, who signs himself Louis Genois, and who seems to have spent just four days in London, to give his impressions of English pharmacy. This young gentleman disposes of the pharmaceutical display of the metropolis with a good deal of disrespect. He says:—

I visited several drug stores (chemists' shops they are called bere), and was surprised to find hearly all of them ridiculously small and insignificantly small concerns, charging high prices, and generally operated by a single person—as a rule the proprietor. American patent medicines and specialties form a prominent part of their stock, and are displayed to the greatest advantage. Counter prescribing is extensively practised, although the shopkeepers claim that it is not so common in London as in the provincial towns; but I am told that many physicians dispense medicines to their patients without charge (?), thus reducing the pharmacists' business.

Only two stores seem to have met with our critic's very modified approval. These were Pepper's and Squire's, and these, he adds, "do not compare in general appearance with our large pharmacies in New York, Philadelphia, and Chicago; still, here they are looked up to and thought a great deal of!" British pharmacists who may feel hurt at being thus contemptuously disposed of may find consolation in learning that the same observer "hurried through St. Paul's Cathedral, which struck me as being only big" (lacking, no doubt, the architectural beauties of Talmage's Tabernacle); and only found his contemplative soul fully satisfied when he arrived at Madame Tussaud's, which "is certainly one of the sights of the city. The proprietors are almost American in their energy and enterprise."

BRITISH PHARMACEUTICAL CONFERENCE.

A MEETING of the Executive Committee was held at 17 Bloomsbury Square, on Wednesday, October 3.

Present:—Mr. J. Williams, President, in the chair, Professor Auffeld, Messrs. S. R. Atkins, Borland, Hills, Naylor, Radley, Schacht, Taylor, and Young, Mr. Ekin (treasurer), and Mr. Plowman (hon. secretary).

The minutes of the previous meeting were read and confirmed.

Letters of apology for non-attendance were read from Messrs, Benger, Payne, and Stephenson.

With regard to the distribution of the presidential addresses delivered by Professor Attfield at the Southampton and Southport meetings, it was moved by Mr. Schacht, seconded by Mr. W. Hills, and carried:—

That, in accordance with the generally expressed wish of the general meeting of the Conference at Southport, it is desirable that the two addresses delivered by the late President (Professor Attfield, F.R.S.) be distributed to members of both Houses of Parliament.

Professor Attfield presented the Conference with a sufficient number of copies of his first address for this resolution to be carried out. It was further resolved that the cost of printing, enclosing the two addresses in a cover, and adding any press notices, &c., be defrayed by the Conference.

Professor Attfield was requested to distribute the copies either direct, or as far as possible through gentlemen personally acquainted with members of Parliament.*

A sub-committee, consisting of the President, Professor Attitled, and the honorary secretaries, was appointed to arrange details.

Professor Attifield announced that he had already received applications from thirty individual chemists and druggists, and two local associations for parcels of the Southport address, with added press notices. Twenty of these requests were for parcels of 50, eight for packages of 100, one for 200 copies, one for 250, one for 500, and one request for 1,000 copies. The Committee egreed that the type of the Year-Book should be used for such reprints, allowed the cartension of the pamphlet from 28 to 32 pages for the addition of press notices, and authorised the printers—

Any pharmacist willing to assist in thus approaching members of Parliament should write for copies to Prefessor Attield, 17 Bloomsbury qu.re, as you as possible. Messrs. Butler & Tanner, Frome, Somerset—to sur y the parcels requested, and any others for which the might receive applications from chemists and druggists at one following rates, carriage paid: -50 for 4s. 6d, 100 fc/s. 6d, 500 for 32s., 1,000 for 32. Applications to be added to Messrs. Butler & Tanner as soon as possible.

The following gentlemen having signified their illingness to act as honorary colonial secretaries for thoundermentioned districts were unanimously appointed: Mr. H. Shillinglaw, Melbourne, for Victoria; Mr. L. H. Bush, Bathurst, for New South Wales; Mr. T. M. Winson, Dunedin, for New Zealand; Mr. A. Walsh, Port Eabeth for the Cape; Mr. H. S. Evans, F.C.S., Montreal, for anada and Mr. D. S. Kemp, Bombay, for Bombay.

The President and honorary secretaries were en were to add to this list, before the next meeting of e committee, the names of any gentlemen who had alrely bee communicated with, and who might announce their villingness to give their services to the Conference.

The following thirteen gentlemen were elected men

Mr. G. S. Butcher (Salford), Mr. G. Cheethar Hope Mr. Walter Farnworth (Blackburn), Mr. T. Grant (Cvedon Mr. Harland (Eccles), Mr. C. James (Birkenhe), M. W. N. G. Lance (Islington), Mr. Leadbitter (Sun rland Mr. E. R. Learoyd (Sheffield), Mr. J. Robb (Cardif Mr. I. Thwaites (Bishop Auckland), Mr. W. S. Turner (auche ter), and Mr. J. Wells (Dublin).

THE SALE OF METHYLATED FINIS.

O'N September 25 a deputation from the Execu e Cormittee of the Chemists and Druggists' Trade A ciation waited by appointment upon the Board of Inland Somerset House, London, the Commissioners president Mr. Adam Young, deputy chairman, and Major Reith Falconer. The deputation consisted of Harrison (Sunderland), president; Mr. W. G. Cross Shrevebury), vice-president; Mr. Prederick Andrews (underland Mr. W. F. Haydon, secretary to the Asseciation)

Mr. HARRISON explained the purport of the vi of the sin deputation. They had a grievance in reference to eactive page of Excise officers when purchasing methylated pirit finish. Purchases of such spirit were continually big me applaint from chemists and druggists, and sometimes to sell sometimes were informed after a considerable time lat spirit had been analysed and found to contain les han filmens quantity of gum ordered by the Board, and that herefalence they had rendered themselves liable to penalties ader tadage Excise regulations. Some of these chemists the limit been visited by the Excise officers, and who at methylated spirit, had been very positive is that, although the spirit was found to contain the spirit was found to contain the spirit when it left their hands it did contain the gulating quantity, therefore the Association thought it ould make a divisible that the Commissioners should issue in 0. advisable that the Commissioners should issue in or directing their officers when purchasing spirit for nalys and to leave with the seller a portion of the article archaigh lous as was customary in carrying out the provisits of the same sale of Food and Drugs Act; he thought such a gulat cutoff the same sale of Food and Drugs Act; he thought such a gulat cutoff the same sale of Food and Drugs Act; he thought such a gulat cutoff the same sale of Food and Drugs Act; he thought such a gulat cutoff the same sale of Food and Drugs Act; he thought such a gulat cutoff the same sale of the same sale of the same sale of the sale of the same sale of the same sale of the same sale of the same sale of the sale of the same sale of the same sale of the same sale of the same sale of the sale of the same sale of the sale of the same sale of the sale of the same sale of the sale of the same sale of the same sale of the same sale of the would do away with a considerable amount c frict which The Commissioners would see that, under existi circle data me tances, the seller had no guarantee that the inple tances had part of the spirit sold by him. He thought it ktrem to had important that, in addition to proceedings shou be c menced within a reasonable time after the pulase menced within a reasonable time after the purely hed light been made, and that there should be a clearly died light and the Poord within which action was taken by the Board.

within which action was taken by the Board.

Mr. Adam Young said that he might say first all the plant of the plant is a sample had been found to contain less than the quantity of gum, at the same time they almost informed the Board that they did not make the fash who are selves, but that they purchased it from wholes hot selves, but that they purchased it from wholes hot like to suggest to the deputation that a far spler which they have cedure than amending the ord-rs of the Board wild be

Association to recommend all chemists who sold the st to take out a licence. In nearly all cases persons who h ht spirit from chemists required it for burning purposes, a he gum it contained, if only a very small quantity, was n rtheless objectionable to the purchasers, as it clogged trick and otherwise interferred with the quality of the for that purpose. In 99 cases out of 100 chemists by ht the finish from a wholesale house, and the Board of It iry had found that the way this finish was made was as fo vs :- So much gum was thrown into a cask of spirit wit special care being taken that it dissolved. The sp was then sent into the country, sold by the chists to the officers, then analysed by their own analyst, an it was scarcely to be wondered at that it was irrently found short of gum. Some years ago the licence for lling methylated spirit was fixed at 21.; or it could be solvithout a licence if it contained one ounce of gum. On cally considering the matter, the Board had come to the collision that it would be better to make a more clearlyde d distirction, and they consequently some time since reced the licence to 10s, and at the same time increased thrantity of gum to be added to spirit to make it into hoping thereby to do away with the unpleasantness so freently cropping up in reference to the sale of these

I ANDREWS said that the Association had always urged chests to take out a licence, but in many small districts while methylated spirit was sold that it really did not pay chests to expend even the small amount of 10s, per annum for licence; and he therefore thought that if the Comminers could see their way to make the new regulation ask for it would be greatly appreciated by the trade generall In any case, however, the Association would still connected by the trade general connected by the state of the connected by the trade general many case, however, the Association would still connected the connected by the trade general connected by the tr

ADAM Young said the deputation might rest quite still on one point—that in the event of the order being mait would really make no difference in the results, as the malysts were very careful, and the Board never took prodings if the gum found was really approaching the

quaty ordered.

Mass said he loped the Commissioners would clearly und tand that the deputation did not complain of the analysis of sit as conducted by the Inland R evenue chemists, nor did the uestion the accuracy of their results, but it must be the bend that the spirit when purchased, in its passage to perset House passed through the hands of a third pers, and he, therefore, thought the Commissioners would agree the samples should be divided. He came from an ory district, and he could thoroughly endorse what had been dy district, and he could thoroughly endorse what had been dy chemists in such districts; nany of them did not display chemists in such districts; nany of them did not display of a gallon of spirit in three months, and, therefore, it wid not at all meet the case to expect them to take out all icence, as they would prefer to give up the sale of the spiritogether.

MADAM Young said that at the time their orders were moded, as stated, it was thought that probably those det to who did not sell sufficient spirit to make it worth thei hile to pay 10s. a year for a licence would give up the

sale ogether.

Mr FALCONER said that he thought in very many case he wholesale houses were very much to blame in said; out to chemists finish in the manufacture of which they id not taken care to thoroughly dissolve the gum.

HAYDON said he had little to add to what had already beer ated by the other members of the deputation. As to the Commissioners had expressed the opinion that the stat of finish was frequently less to blame than the manicturer. Le thought the Board could not possibly objeto make provisions for a sample to be left with the stat as some guide and protection to him against errors madoth before the spirit cume into his possession and agailter it had left his hands. Without such a sample the fer was in an extremely unplearant position. He also tope hat when making the order the Board would so word in that cise officers should be compelled to leave the sample withe seller, and not only offer to do so, as considerable difficty had been experienced by the Association in cases under he Sale of Food and Drugs Act by vendors refusing to reive sealed samples when offered by the inspector.

Mr. ADAM YOUNG said that they would recommend the Board to issue the order asked for, and it should be made to comply with the last speaker's suggestion.

The deputation then thanked the Commissioners and with-

lrew.

PHARMACY IN AUSTRALIA.

(FROM OUR OWN CORRESPONDENT.)

MELBOURNE, August 23.

THE most important item of news since my last letter has been the suspension of Messrs. Hemmons, Laws & Co., wholesale druggists, of this city. A meeting of their creditors was held on the 16th inst. The statement of affairs showed assets estimated at 16,6007, against liabilities 31,4007. But as the stock has been taken at list prices, at least 25 per cent, should have been deducted from the value thereof. The deficiency, therefore, is increased by about 3,0007. It was resolved that the estate should be sequestrated, and that Mr. H. W. Danby be appointed trustee, with a committee consisting of Messrs. Charles Bright, A. Felton, and H. J. Langdon.

The failure is likely to affect a number of retail chemists

who have had financial relations with the firm.

Since the meeting the estate has been placed in the Insolvent Court, and the first meeting was held to lay, when the assets should be disposed of by tender. The estate is not expected to realise more than four or five shillings in the pound.

A considerable number of the exhibits from Victoria for the Calcutta Exhibition have been shipped. Mr. Posisto, the president of the Victorian Commission, is expected to

leave by the next mail for Calcutta.

The Shops Commission recently visited the Australasian Glass Mannfacturing Company and the Glass Bottle Works, for the purpose of ascertaining the conditions under which artisans are employed there. They found that a few boys were engaged at each place, but the majority of the workers were men, some of whom had been imported from England, the others having been trained in the colony. The managers of the Australasian Committee informed the Commission that the Colonial workmen were smart and active, an I, as a rule, more steady than those introduced from other countries.

In the glass bottle works the term of apprenticeship was stated to be seven years, and at the Company's place five years, at the latter the men could carn as much as 18s, per

day.

The Pharmaceutical Society are making preparations for their new building, the whole of the apparatus for the laboratories, lecture-hall, &c., having been ordered from America, and the glassware, &c., from Germany. Several English firms have written offering collections of specimens, &c. for the museum. Mr. W. J. Warkits on behalf of Messrs. Evans, Leecher, & Wells, and Mr. Charles P. Hayward, a member of the firm of Tomlinson & Hayward, Lincoln, England, both of whom are at present in Melbourne, proffer valuable contributions.

It is proposed that the Conference and the Annual Dinner shall form a portion of the opening ceremony.

A New Zealand Correspondent sends me the following notes in reference to the amendments proposed to be made

in their existing Pharmacy Act :-

Our New Zealand pharmacy law is an extraordinary "hash;" it comprises much that is in your Victoriau Act, but very stupidly leaves out the most useful and important portion. The twenty-fifth section of your Act is embedied in ours, with the exception of the first sub-section, which makes it illegal for any person not duly qualitied to carry on the business of a chemist and druggist. Now, the result of that omission is that numerous persons keep open shep with the emblems of a chemist fully displayed, but so long as they do not exhibit the name "chemist," "druggist," or words of similar import, they do not commit a breach of our law. To remedy this and other shortcomings in the Pharmacy Act, the board determined to obtain the needful amendments this session; so, in order to strengthen their position with the legislature, they drew up a circular embodying the proposed alterations, and requesting an expression of opinion. The result of the plébiscite was that,

cut of 250 circulars sent, 128 voted for the amendments as a whole, and four approved, with the exception of amendment No. 3, affecting the qualification of managers in branch shops; the remaining 118 did not take the trouble to express themselves on the matter. This was considered very satisfactory. However, a section of Dunedin chemists took up the rôle of "oppositionists" for the reasons stated in a circular published by them. This circular was forwarded to each chemist in the colony, and to each member of the legislature. Their conduct in this matter was warmly resented. Christchurch summed the matter up in two words—"obstruction and antagonism;" Wellington chemists thought it "presumptuous interference;" and the Auckland council at once forwarded a strongly-worded resolution, by telegram, unanimously approving of the board's action.

I fear that our Amendment Bill is now too late for this session; the Government could not take it in hand, but they suggest its introduction in the Upper House. The Hon. Dr. Menzies has promised to bring it in, and the Hon. Dr. Pollen and Hon. Dr. Grace promise assistance and fostering care. If our child survives and reaches maturity, its parents deserve much commendation, especially after the trying

ordeal it has been subjected to.

PHARMACY IN CANADA.

(FROM OUR OWN CORRESPONDENT.)

MONTREAL, Sept. 19.

A GRAND banquet takes place here this evening in honour of the Earl of Carnarvon, who is visiting Canada and the Great North-West, where he has, I believe, large monetary interests. Montreal, being the Metropolitan City of the Dominion, feels it an honour and aduty to pay respect to a man who had so much to do with the Confederation of the scattered provinces of British North America. Yesterday he was invited to a seat in the Synod of the Church of England at present sitting, and in the evening he received an address from a lodge of Freemasons. Scarcely a week passes but the hotel registers bear the autograph of a Lord or an Earl.

The annual meeting of the Montreal College of Pharmacy was held last week, and Messrs. Roch, Dugal, and Louis Basidon were elected presidents and vice-presidents respectively; Alex. Manson, treasurer, and Wm. Ahern, secretary; with a Council composed of the members of the Council of the Pharmaceutical Association of the Province of Quebec resident in this city. The College of Pharmacy, a better name for which would have been School of Pharmacy, was established to furnish lectures on chemistry, materia medica, and botany, to young men employed in the pharmacies of this province, at suitable hours. It has been uphill work so far, and even now it is almost impossible to excite the slightest interest amongst employers.

The Registrar of the Pharmaceutical Association was called upon this week to set the law in motion against a pharmacist in Sherbrooke for employing an unlicensed clerk. A warrant was issued, and the magistrate fined the delinquent twenty dollars. Other cases of flagrant violation of the law are in hand, and prosecutions will follow in due course. As a rule the provisions of the Pharmacy Act are respected in this province, and cases of violation are few and far between.

It must not be inferred that everyone is satisfied; not at all; the gentlemen whose shortcomings are discovered naturally grumble, and also those who desire the association to surround them with a stone wall to prevent any competition getting near them, in fact, all those who wish a monopoly do not think the Association does enough. Something of the same kind occurs in England I fancy. "God keeps those who keep themselves" would be a good motto for pharmacists to have engraved on their lockets. We, all of us, want more manliness and independence of character. This appealing to a society or an association every time a competitor sells a bottle of quack medicine at or below cost is absurd in the extreme. There is plenty of work for pharmacists all over the world. Let us use the intelligence which God has endowed us with, and the cultivation which colleges of pharmacy has given us to some better use than that of eternally grumbling.

The world is wide and locomotion has been made asy by science, therefore, if pharmacy is overcrowded in one ountry let us try another; or if a man is so wedded to hat heath that he cannot leave it let him try his hand some at thing else. The chemistry which every man nowada learns as a pharmacist ought to make him useful to his fel we men in other places than behind a counter.

The annual meeting of the Ontario College of Plomacy, which holds the same position with regard to examing and licensing in the Province of Ontario as the Pharmautical Association does in the Province of Quebec, was eld in Toronto on August 1, 2, and 3 last. By the stateent of assets and liabilities submitted, our Ontario brethreappear to be in an exceptionally good financial condition, their assets over all liabilities being on August 1 \$7,666.8

Very few changes have taken place recently in the pharmacies in Montreal. The Medical Hall branch Philip Square, which was lately purchased by its previous inager Mr. Dyer, from Messrs. Kenneth Campbell & Co., apporto be doing a flourishing business. Mr. Jackson's branch he faller into the hands of Mr. Alphonse Davidson, who will doubless in time work it up into a quiet family business. On Not Dam Street a new pharmacy has been opened by Dr. Dems, who must have a good deal of moral courage to begin eas: pharmacist alongside of two very substantial pharacies both of which are backed by considerable capit. McNichol has opened out on St. Catherine Stree West where, if report speaks truly, he is doing fairly all. It all probability the time has arrived when it wi be n longer profitable to open new pharmacies in this cit New beginners will find it to their advantage to buy it old established houses. In any case very little can be one i the larger cities of Canada at the present day whout moderate capital to begin with. Business appears toe ver good with the wholesale houses, and few complets a heard. One of our smaller banks has gone under th week The usual assurances that no one will eventually suff have as usual, been freely made. The same assurances we made when the Consolidated Bank closed its doors.

An honoured and very old pharmacist, Dr. Pice t, wa tendered a banquet last week by the citizens of Moreal, in the Salle des Sociétés Nationales Françaises. Alt 30 people were present, a large proportion being geleme born in France, besides numbers of our leading citiens of other origins. The chair was taken by Ovide Perra Vice-Consul of France, supported on his right by t gues of the evening, Dr. Picault. During the evening the orthopharmacist, for he has been identified with pharmac luring the last thirty or forty years, was presented with his ortraining oil, elegantly framed. The doctor's pharmacy is no Notre Dame Street, and his name is a household ord in Montreal. He was some years ago Vice-Consul of and has always taken a lively interest in the of his adopted country. After the banquet the gue of the evening was escorted to his residence on St. Deni Street, which he entered to the glorious strains of the "Mar laise"

sung as only Frenchmen can sing it.

KOUMISS IMITATION.—Two hundred parts of collense milk, 2,000 parts of water, 2 parts lactic acid, 1 p citri acid, and 30 parts of brandy are mixed and carbonal well and let it stand for a couple of days in a waitill it froths.—Stearn's New Idea.

PLEASANT DISINFECTANT FOR ROOMS.—Camp r, 20 hypochlorite of lime, alcohol, and water, of each 5 euca lyptus and clove oils, of each 1 part. The ing dient must be mixed slowly in a spacious vessel kept cool. A fet drops on a plate will suffice to disinfect a chamber plantly.—Furm. Ital.

PAPIER FAYARD,—The Indiana Pharmacist g s th following formula for the preparation:—

 Gum euphorbium
 5i

 Powdered cantherides
 5

 Venice turpentine
 5

 Alcohol
 3

Macerate the euphorbium and cantharides with the coholing for forty-eight hours, strain, and add the Venice tine; spread on French tissue-paper with a soft brundle of each sheet about 18 by 24 inches. This article is repute for the cure of corns, bunions, and the relief

er 15, 1885.]

Trade Hotes.

I BONIJEAURD, manufacturer of bandages and elastic sw. at itstrurents generally, has removed from 49 Davies 811 to 3 Gromesor Stree", W.

Vhave received another Parcels Post Box for bottles, this me from Messis. Arundel & Marshall, Hoxton. The chipeculiarity is a tag on which the stamp is to be placed, soft official energy shall not be expended on the bottle.

Whave received from Mr. Silverlock samples of several ban mely ornamented presentation almanaes for 1884, on ling aunouncements adapting them expressly for distribution by chemists.

TINDIAN ZOEDONE COMPANY.—At a special meeting of Indian Zoedone Company, on September 27, resolution wind up the company voluntarily, under the superminof the Court of Chancery, and appointing Mr. Henry Spathe liquidator, were unanimously agreed to.

AGRAPHED" circular has been sent to a number of the detal manufacturers round about London, announcing that sum of 200,000% is ready for investment in chemical work where there is an opportunity of manufacturing only.

MC. R. CHRIST: ANI has sent us a sample of his flexible medie capsules, made in six sizes, and filled with any medient desirel. They are put up in partitioned and was, a partition to each capsule, which is also sursum with a taking little white paper frill.

Ti British Architect of September 21 contains a series of ligraphic sketches and a careful description of the new rehouses and askay laboratories of Messrs. Johnson 4801 Limited), Cross Street, Finsbury, wholesale chemists and tayers.

TESUSSEX DRUG COMPANY publish by advertisement in this irnal facsimiles of forged labels of their "Cobden's Quid and Phosphorus Pills," which it appears have lately ten aced on the market, and they ask chemists to return to the any of the spurious pills they may have in stock for each e.

Mers. Hearn, Riddell & Co., of Kingsland Road, have it us samples of various bottles such as chemists and eggists use. In point of finish these would give satisfactle to the most fastidious pharmacist. We are not provid with the means of judging whether they are specify cheap or not. The feeding bottles manufactured by the firm seem to be good value for the money.

Meas. Barnett & Foster, who have removed their office from Forston Street to more spacious premises at Eagle'harf Road, have published a new handsome catalogue; soda-water machinery, ice-making machinery and accesies, as well as subsidiary trades, confectioners' mach.ry, woodworking machinery, printing-presses, &c. It filmore than 120 pages, is profusely illustrated, and conta all the latest ideas.

We nderstand that Spratts Patent are to supply the pensil food at the forthcoming Crystal Palace and Birminglan Poultry Shows. All the pens will be their new and invoved ones. This enterprising firm (not content with riting a new era in the fittings and feeding at dog and pitry shows) have opened works for the manufacture of al inds of dog, poultry, and game houses and appliances, visit to their new show-rooms in Bermondsey Streetill well repay intending purchasers.

AMONG the limited companies registered during September were the Electric Brush and Appliance Company, capital 10,000*l*., in 1*l*. shares; the Mincing Lane Offices Company, capital 94,000*l*., in 100*l*. shares; the Patent Oil Extracting Company, capital 30,000*l*., in 10*l*. shares; the Rosbaca Company, capital 25,000*l*., in 5*l*. shares; the Scarborough Aërated Waters and Bottling Company, capital 3,000*l*, in 3*l*. shares; the Whitwood Chemical Company, capital 200,000*l*., in 100*l*. shares; and the Wholesale Mineral Water Supply Company, capital 15,000*l*., in 5*l*. shares.

MR. WM. BECKETT, of Heywood, Manchester, has sent us samples of Winterine and Wolseley liqueur. The latter was first introduced to the public at a banquet given to Sir Garnet Wolseley at Manchester, the former at the opening of the local Masonic lodge. Wolseley liqueur has cinnamon as predominant flavour, with a basis of acid and a trace of capsicum. Winterine is rather warmer in taste, and is flavoured with jargonelle or pineapple, or a mixture. These syrups are intended for use with hot, cold, or aërated waters at all seasons of the year.

Personalities.

THE present Mayor of Brighton, Mr. A. H. Cox, is to be re-elected for the ensuing year.

Mr. HENRY HEIL has succeeded to the old-established business of Mr. T. Kalb, of St. Louis, U.S.A.

Mr. A. H. SMITH, Broad Street, Hanley, has sold his business to Mr. Thomas Charles, lave of Lindon. Mr. Smith enters into a partnership in another trade.

Mr. Pelham C. Young, chemist and druggist, Penzance, is selling off his stock at reduced prices, with the intention of discontinuing his business.

Professor Attrield has been unanimously elected an honorary member of the Pharmaceutical Society of Denmark.

MR. THOMAS WARDLE, of Ashbourne, has pure ased the business, 17 St. John Square, Burslem, for many years carried on by Mr. G. C. Guest, who retires from the drug trade to enter another profession.

WE note that Mr. Joseph Ince has been added to the teaching staff at the School of Pharmacy, Bloomsbury Square. He will assist in giving instruction in the reading and dispensing of prescriptions.

Messes. Paton & Finlay, of Edinburgh, have opened a second shop at 42 South Bruntsfield Place. The fittings, by a local house, are exceedingly handsome. The design is after Chippendale, and the wood, chiefly mahogany, is darkened and "dull" polished so as to produce the impression of age. All the fittings are in harmony, and the shop is a handsome addition to the pharmaceutical establishments of the Scotch capital.

A JUBILEE.—On Wednesday evening last, October 10, Messrs. Baiss Brothers & Co., wholesale druggists, of Jewry Street, gave a dinner at the Holborn Restaurant, in honour of Mr. John Clark, a gentleman who was then entering on the fiftieth year of his association with their house. The principals and all the heads of the departments were present, and several friends of the firm. The same evening a supper was provided for the rest of the employés elsewhere. Speeches were made which indicated the existence of a very cordial spirit between the principals and those in their employment. We understand that the firm had previously presented Mr Clark with a valuable piece of paper, and that the staff showed their esteem by the gift of a handsome clock.

RESULT OF THE VIENNA PHARMACEUTICAL EXHIBITION—The Benevolent Fund for the benefit of which the International Pharmaceutical Exhibition at Vienna was promoted, has received the sum of 5,000 florins as the net proceeds of the enterprise.

Gbituary.

FOURNE.—On September 9, Mr. William Kemsey Bourne, chemist and druggist, High Street, Lavenham. Aged 38.

BORTHWICK.—On September 10, at Alloa, Mr. George Borthwick, chemist and druggist. Aged 73. He was a native of Jedburgh, and commenced business at Dunbar, where he remained two years. In 1838 he purchased the stock-in-trade of Mr. Tait, of Alloa, and has carried on the business in the same premises for nearly forty-six years. His brother continues it. He was well known and much respected in Alloa.

CUNLIFFE.—On September 2, Mr. John Cunliffe, Blackburn Street, Bolton. Aged 53.

DILLON.—On September 20, at Hereford, Mr. Francis R. Dillon, chemist, member of the Hereford Town Council, from an overdose of chloroform. He had been ill lately, and had been in the habit of occasionally taking opiates. On the previous night, about twelve, he went down to the shop, ostensibly for a draught, and was soon after found on the floor dying. He died before medical aid arrived. There were open bottles of strychnine and chloroform on the counter. The medical witness said that the deceased died from inhaling an overdose of chloroform. The jury returned a verdict to that effect, but added that whether inadvertertly or from temporary insanity there was no evidence to show.

ELLSUM.—On September 16, Mr. William Augustine Pridmore Ellsum, chemist and druggist, High Street, Newcastle, Staffordshire. Aged 27.

GEERTS.—The Dutch Pharm. Weekblad reports the death of the well-known pharmacist A. J. C. Geerts, the director of the Japanese State Laboratory, at the age of forty years. Herr Geerts was originally a military apothecary, and went as such into the service of the Japanese Government, where he soon acquired an eminent position. Under his initiative a favourable impetus was given to pharmacy, scientific instruction was improved, numerous laboratories were erected, and many important sanitary measures were introduced.

GUTHERIDGE.—On July 6, of fever, in the West Indies, Mr. George Frederick Gutheridge, M.D. and Bell Scholar, formerly of Falmouth, surgeon of the Royal Mail steamship Severn. Aged 27.

HARTLEY.—On September 7, Mr. Charles Joseph Hartley, chemist and druggist, New Malton, Yorkshire. Aged 69.

IMRIE.—On August 31, Mr. David Imrie, chemist and druggist, Consett, Durham. Aged 74.

Row.—On September 16, at Devonport, Mr. Charles Row, pharmaceutical chemist. Aged 79. He was one of the magistrates of the borough, was mayor in 1864, and chairman of the School Board for many years. He was a prominent member of the Methodist body.

STOKES.—On September 7, Mrs. Mary Stokes, chemist and druggist, Watery Lane, Birmingham. Aged 74.

STRANG.—On October 5, Mr. Peter Strang, chemist and druggist, 34 St. John Street, Perth. Aged 53. Mr. Strang had been thirty-five years in business for himself, and was extensively known and highly esteemed in the city and county where he resided.

WATSON.—On September 10, Mr. Horace Watson, jun., chemist and druggist, Laceby, Grimsby. Aged 35.

MARRIAGE.

RUNNALLS—CARDELL.—At Bodmin, October 2, by the Rev. Ricbard Daw, Harry Boyle Runnalls, surgeon, Saltash, to Edith Wilmot Cardell, youngest daughter of J. M. Harvey Cardell, chemist, Penventon, Bodmin.



LIQUIDATIONS.

BAMFORD, GEORGE WOOD, 13 Sunny Mount, Spring Lane, Rad ffe, dry salter. October 3.

CARTER, JOHN, 1 Whitfield Street, Hunslet, Leeds, and Geled Ross Birstal, ammonia manufacturer. September 13.

Jackson, James, Kirby Moorside, chemist, druggist, and win ad spir merchant. September 13.

MARCHAM, JAMES, 5 Lower Bridge Street, Chester, druggist anlrysalted September 6.

NATION, WILLIAM, & BURTON, EDWARD. Redcros Works, Art Ros St. Phillips, Bristol, under firm of Nation & Burton, drilters an grocers' sundrymen. September 19.

PARNELL, EDWARD ANDREW, Ashley Villa, Faton Terrace, Stussa, or sulting chemist; in parinership with Joseph Hall as sinic a chemical manufacturers, Llansamlet, and 4 Cambrian Plac Swans September 18.

PEAKE, CHARLES, 123 New Street, Barton-on-Trent, pate medici dealer. September 20.

TOWLER, GEORGE BLAND, 58 Queen's Road and 14 The Willow ivery chemist, druggist, and drysalter. September 5.

TROAKE, MARLER HAMILTON, Helston, chemist and druggist. pt. 10.
WHEATCROFT, ADOLPHUS EDWARD, 84 Osmaston Road, Der and druggist. September 11.

WILLIAMS, THOMAS LIEWELLYN, 179 Howard Place, Shelte Hanl chemist and drugg'st. September 20.

SCOTCH SEQUESTRATION.

PAUL, WILLIAM TAYLOR, Medical Hall, Motherwell, and Mosse, chem and diuggist, under firm of Paul & Co. September 19, 11 Hotel (Campbell's), Hamilton. Claims bj January 10.

PARTNERSHIPS DISSOLVED.

JONES, ORLANDO, & Co., Billiter Street and Battersea, patent re-star manufacturers. (John Kemp Wech, William Evill, Strey Ke Welch, and Joseph Waltou; as regards J. K. Welch, May .) De by remaining partners.

PRYER & HARRIS, Axminster, chemists and druggists. Ju 31, 16 (William Symes Pryer and Michael Charles James Barris.)

PRYER & HARRIS, Axmirster, chemists and diuggists. J 1, 10 (Elizabeth M. A. Pryer, widow, executrix of William Sees Pr. deceased, and Michael Crarles James Harris.)

Singleton, Joseph, & Co., Blackley, near Manchester, ma facture chemists. September 4. (Joseph Singleton and Art r Geo Ashworth.) Debts by Singleton.

SMITH, T. & H., & Co, Duke Street. Edinburgh; Worship Stre Lond and Blandfield Chemical Works, Canomills, Edinburg manuturing chemists and druggists. (James Shanklie Smith, Γε΄ Shan Smith, and James Smiles; as regards J. S. Smith, July 2. Debts remaining partners.

WORGESTERSHIRE SAUCE AND PICKLE COMPANY, Stratford and I Birmingham, condiment manufacturers. September 1 (Edw Edgar Hyslop and Joseph Ashmore Russon.) Debts by Hyp.

MARLER HAMILTON TROAKE, Chemist, Hels n.

A MEETING of creditors in re this estate washeld Plymouth on September 28. Mr. Godd, of Exeter, esid The debtor's statement showed 761L due to unset ed to ditors, 318L to creditors holding a security wort 8L, a 28L for rent, wages, &c., the total liabilities bei 1,10 The assets, valued at 610L, consisted of stock-ir ade Helston (if sold as a going concern) 329L, book de s 12 valued at 100L, cash in hand 19s., and furniture xtur &c., 180L. The principal creditors were Bolith & C bankers, who proved for 318L; Evans, Gadd & Co Exet 170L; Barron, Harvey & Co., London, 101L; an Mr. Clark, Plymouth, 49L. The debtor attributed his lure loss of trade; and, having no offer to make, it was solv to liquidate by arrangement. Mr. J. J. E. Dawe as a charge at the expiration of three months from the late the meeting, if he rendered him every assistance. Spat was expressed for the debtor, and it was hoped friends would come forward and assist him, the being willing to sell the estate to him on easy tern

Bechange Solumn.

mms.—Announcements are inserted in this an at the rate of one halfpenny per word, ondition that name and address are added. No and address to be paid for. Price in 130 counts as one word.

name and address are not included, one pyper word must be paid. A number will it be attached to the advertisement by the P sher of THE CHEMIST AND DRUGGIST, and a prespondence relating to it must be wissed to the "Publisher of THE CHEMIST A DRUGGIST, Colonial Buildings, Cannon St., London, E.C.," the envelope to be er sed also with the number. The Publisher w cansmit the correspondence to the advertisand with that his share in the transaction we ease.

Dental and Surgical.

of 12 modern tooth instruments, in abogany case, nearly rew; what offers? Cook, 2 Mozart Street, Harrow Road, W. St tooth-forceps, key, and elevator, by Ash, st 51. 5s., 21. 5s.; scaling, stopping, secting, and other instruments. 1: inch icroscopic objective, 11. H. 5 Camden illas, Shirland Road, London, W.

Drugs and Chemicals.

Mc. mnr. and acetate, 6s. per cz. Read, nemist, Upper Holloway, N.

In nge for patents, &c., a 6°-lb. drum glycene-1760, 9½d. per lb., and a 5-gallon case le Norwegian cod liver oil, 7s. gallon. E. Banner, Liverpool.

On ated genuine.—2 lbs. quinine, 7s. per oz.; lbs. salicylic acid, 7s. 3d. lh.; 26 loz. ttles tanuic acid at 4d., including bottle. rman Brothers, Chemists, Roman Road,

Proprietary Articles.

Parts, &c., for immediate disposal; list sent. pply to 72/33.

Me d's dip, 16 tins 3s. 9 ditto, 5s. 6d., 4 ditto s.. quite fresh, will take four guineas.

. Thomas, Chemist, Builth.

Niris. Liehig's cocoa, nine 2s. ditto. three 9d. Gristock's gont pills, one 5s. Nelson's latine, two 1s. 1½d. fir wool oil, three 3d. Blackburn's congh elixir, two 2s. 9d. kinson's preservative, four 2s. 9d. Scott's ls, three 1s. 1½d. McDougall's carbolate; at half retail price, good condition. fight, Knaresborough.

Where slightly soiled: six, 2s. 9d. Professor own's herbal ointment for 7s. 6d.; five Steiner's vermin paste, 2s. 6d.; three 1½d. paper Fayard, 1s. 6d.; four 7½d nire Night's eye ointment, 1s.; six 1s. 1½d. peptic compound, 3s.; two 2s. 9d. Silver's energiser. 2s. 6d.; two 1s. 1½d. Marget-'s cough elixir, 10d.; sixteen 1s. boxes k cement for marble, &c., 7s; nine 6d. ditto, 9s.; five 1s. boxes Cyprus cigates, 2s. Garman Brothers, Chemists, man Road, Bow, London.

Educational.

Tal Materia Medica Cabinet and Herbarium, t27s.: 10s. 6d. or offers. Sanders, 14 Vicar eet, Kidderminster.

legible autograph prescriptions (original), 6d., as presented to the Pharmaceutical tety of Ireland for their examina18; 30 prescriptions (catch and difficult) en to dispense at Minor during past 12 this, 2s.; 50 questions asked of sucful students at last Minor, 1s. 1d.; lot of fap, almost new, books. Stamp for list, anders. 130 Camden Road, N.W.

Optical.

A quantity of spectacles for sale or exchange, cheap, 73/11.

68 pairs of spectacles cost 61. six months ago;

will take 31. Thorpe, Chemist, Northampton. Seven dozen new spectacles, retailing from 1s. to 7s. 61. each, including tinted, periscopic, curl-sides, &c., 25 per cent, less than invoice price. Brigstocke, Chemist, Carmathen.

Apparatus.

York Glass Co.'s displacement apparatus, onepint size, price 10s. Forbes, Reigate.

Four large oil-cisterns, brass taps, 4½ feet high, $2\frac{1}{2}$ feet diame*er, 73/23.

A 10-gallon portable still complete, with worm and tub, cheap. 71/33.

A D'Or's No. 2 light and power battery, 25s, little used, sell for 15s. Vennall, Crauleigh, Surrey.

Maben's hot-air chamber (see *Pharmaceuteal Journal*, March 31); what offers? Wilson & Son, Chemists, Harrogate.

Percolator, complete glass, 2 gallon, graduated, 320. What offers? Willis, Chemist, Stockport.

Pill machine, new, f r 24 five or seven grain pills, free by parcels post on receipt of 13s.6d Eastman, Chemist, Tottenham.

A 2-gallon copper still, tinned inside, in good order, 2's.; very chcap. Read, Chem at, Upper Holloway, N.

Literature.

Chemist and Druggist posted fortnight after publication; offers. Forbes, Reigat:

The Chemist and Druggist, from 1878 to 1883 inclusive, unbound, 10s. for lot, good condition. Chalmers, Greenock.

"Modern System of Farriery," illustrated, Skeavington, excellent condition, 10s. Davies, Chemist, Machynlleth.

Nine vols. Pharmaceutical Journal, 1811 to 49, bound; cash or exchange; good condition. Holifield, 168 Piccadilly, W.

What offers? Chemist and Drugjist, 1880, 1, 2; Pharmaceutical Journal, vols. 12 and 13; Chemist's Journal first 68 numbers. Taylor, Chemist, Sedbergh.

Southal's Materia Medica Cabinet, 12s.; Garrod's "Materia Medica," 6s.; Fownes "Chemistry,' 5s.; Lescher's "Pharmacy," 4s.; Bentley's "Botany," 3rd edition, 7s. 6d., 2nd edition, 4s. 6d.; all in good condition. Pierce, 4 Great Percy Street, London, W.C.

Pharmaceutical Journals for several years; also the students' collections of specimens of Materia Medica, by Sonthall, Birmingham; what offers? or will exchange stereoscope with slides. Address, R. Newman, 13 Market Street, Darwen.

Any reasonable offer accepted; ten volumes (complete) "Circle of the Sciences," published price 8s. 6d. each, by Wyldc, excellent condition; Attifeld'a "Chemistry," Balfour's "Botany," Wills' "Pharmacy," Wills' "Materia Medica," Lescher's "Elements of Pharmacy," Roscoe's "Elementary Chemistry," Isaa: 10 Gold Street, Cardiff.

"Harris on the Pig,' 1: 6d.; British Pharmcorceia, 1864, large edition, 3s; small, 2.; "Complete Herb list," Brown's, 3.; Horper's Medical Dictionary, 5s.; "Cyclomedia Domestic Medicine," Andrew's, 28.6d.: "Water Analysis," Wanklyn, 2s.; Clarke's " Cattle Doctor," 1s. 6d .; Clarke's "Farrier," 1s. 6d.; Bridlake's "Chemistry," 1s. 61.; "Cæsar," with translation. 2s. 6 i.: Latin. English Dictionary, 2s. 6d.; "The Horse." Youatt, 3s.; Squire's "Companion." 1873, 3s. 6d.; Proctor's "Lectures on Pharmacy," 3s.; London Pharmacopæia, 1835, 2s. 6d.; 6 doz. 11-oz. covered pots, 1s. 6d; 9 doz. 1.cz. covered pots, 1s. 4d. Griffith, Pharmacist, Blandford.

Soda-water Plant.

Second-hand soda-water plant—several in stock.

Address, Brathy & Hinchliffe, Sandford
Street, Ancoats, Manchester.

Barnett & Foster have some second-hand sodawater machinery of their own for sale. Apply, 23T Forston Street, Shepherdess Walk, London, N.

Shop Fittings.

The fittings of a druggist's shop, consisting of shop-rounds, pots, &c., all with contents; mahogany drawers, large glass cases, speciejars and carboys, with mahogany stands for same. General appliances. Apply for full particulars to Young (late Prockter), Chemist, Penzance.

First-class second-hand dispensing-counter, deal-panelled counter-front and mahogany top, and mahogany screens with handsome plate-glass table's, gold writing, 7 ft. 5 in. long by 4 ft. 11 in. high, 5l. 10s; two 6-foot nests, two 4-foot, two 2-foot mahogany-fronted drawers. To he sold cheap, 2? Gun Street, Brushfield Street, Bishopsgate.

Second-hand stock .- Counter and apright case as Maw's A 4, 42 in. long, 25 in. wide 23 in. high, no carving, 61.; Spanish mahogany dispensing screen, plate-glass sashes and tablets, pilasters and trusses, own make 107 in. long, 231 in. high, 71. 10s.; mahogany external doors, plate-glass, shutters, fanlight, 88½ in. high, 48 in. wide, 31.; mahogany shop-front sash, 139 in. long, 111½ in. high, 30s.; counter-case, 30 in. by 24 in., 10s.; ditto, 25½ in. by 12 in., 5s.: plate-glass fascia, "Pnarmaceutical Chemist," embossed black ground, 1461 in. long, 14 in. high, 31. 10s.; 20 1-gallon black uprights, 10s.; 26 3 pints, 4 3-gallon cylinders, 20s.: 21 1-lb. drab pots, new, 18s.; 16 8-oz. ditto, 7s. 6d. Hawke & Son, Wild Court, Great Wild Street.

Dispensing cases and screens, 5-ft., 6-ft., 7 ft. long : glass case at each end, mirror centre, &c., various designs: 3-ft. long, 3-ft. 6-in., 3-ft. 10-in. 4-ft., 4-ft. 6 in , 5-ft., 6-ft., 7-ft. long, as fig. A 54, 55, 56 Maw's; spongecases, A 41, 42, 43; show-stands, A 38, 40, 30; counters, all sizes, A 60, 61, 63, 66, 67; dispensing counters or cabinets, A 76, 77; drugdrawers. A 79, 80; shopfittings, all sizes, A 82, 83, 84, 85; wall-cases, A 86, 87, 88; quantity nests retail and dispensing counter drawers; counter and dispensing scales, figs. 2, 4, 9; quantity mortars and pestles, compounding funnels, graduated glass measures, pill machines, copper and pewter measures, oil-cisterns, and every description shopfittings, show cases or utensils required by the trade. Lloyd Rayner, 10 and 46 De Beauvoir Crescent, Kingsland, London, N.

Plate glass counter-cases, superior, hest make, new, A1, 4 ft. long, 101; A4, 3 ft. long, with carved top, 101.; 3 ft. 6 long ditto, 111.; A 5, 4 ft. 6 long, 151.; 5ft. 2 long, 181. 10s.; 4 ft. 19 long, 171. 10s.; A 8, 5 ft. long; 6 ft. long; A 12, 2 ft. 1 long, 2 ft. 4 long. A 15, 4 ft. 8 long, 6 ft. long; A 18, 4 ft. 9 long, 6 ft. long; upright cases, without desks, A 31, 32; 7 upright cases with desks, A 30, 31, 32; c'gar-cases, A 34, 35; tooth brush cases, A 9, 10; 2ft. to 3 ft. long, 17 in wide flat counter-cases, sloping glass fronts, mirror backs; 2 ft. to 2 ft. 6 long, 3 ft. high upright counter or wall cases; quantity gold-labelled shop-bottles and jars; specie jars; 3 handsome large carboys, cut s'oppers; quautity show jars, fig. D; jujube and lozenge jars; show-jars, figs. A, C; shop lamps and brackets, figs. 1, 3, 5, 6 Maw's; 2 pillar lamps and brackets. Lloyd Rayner, 10A and 46 Dc Beauvoir Crescent, Kingsland, London, N.

Show carboys and shop jars. Hudson, Chemist, Southwick, Sunderland.

Two 6-gail, carboys, cut stoppers, for window, height 29 inches, 35s. pair. A. Deck, King's Parade, Cambridge.

Ten black store bottles, about 4 quarts, gold labels and tin caps, nearly new; offers. A., 33 Feruhead Road, Paddington.

Leech aquarium, shop rounds, show carboys, sell or exchange Whelpton's pills 2s. 9d. Hulme, Chemist. Fenton, Staffordshire.

The entire fixtures of several handsome chemists' shops for disposal; great bargains. Lloyd Rayner, 10A and 46 De Beauvoir Crescent, Kingsland, Londen, N.

I have a beautiful medical cupboard with eighty compartments, nest of drawers, &c., with maboganv top, 7 feet high, will exchange same for turning lathe, back gear preferred. R. H., 1 St. John's Read, South Norwood.

Formula.

Face-powder, cheap, and equal to any; recipe, 1s. H., 5 Camden Villas, Shirland Road,

Valuable proprietary article - Pate-de-Licben similar to Christian's (see last month's number); same terms not guaranteed after duration of this announcement. Atkinson's " Milk of Roses," cost trifling, result satisfaction, splendid basis for cosmetic nostrums; 13 stamps "Devoniensis," Broadhempston, Totnes.

Formulæ for the following preparations, at present in successful use, and therefore recommended with confidence-the confidence of experience. " Foaming Liquid Dentifrice," strong and the flavour unique; "Quinine and Iron Tonic," pleasant, harmless to the teetb, and keeps unchanged ; "Transparent Glycerine Jelly," cqual to Wheeler's, cheap, and without gelatine, isinglass, starch, or soap; "Hair Restorer," a desirable specialty, being cheap, quick, and harmless-bas paid the rent where now used ; "Milk of Roses," a perfect emulsion; "Marking Ink," equal to Bond's, and will not burn the fabric; "Perfeet Writing Ink," without galls or iron, equal to Draper's, and costs 21d. per gallon; "Cod liver Oil Emulsion," "The Senegal Cough Syrup," and others on application, 9d. cach, 3 for 2s., 6 for 3s. 6d, post free. W. Stewart, 39 French Street, Southampton.

Fragrant foaming dentifrace (like "Floriline"); marking ink, sine silver (aniline), writing executed defies chemicals; effervescing fruit saline (resembles Eno's); magio neuralgic drops (never-failing remedy); quinine and iron tonic (resembles Pepper's); limejuice and glycerine (inseparable, white as milk); blne-black ink (non-corrosive, sine iron or galls); cherry tootb paste (never ferments, like Gosnel's); brilliantine (inscparable, like Rimmel's); pill-coating (pearly white, no mucilage or mastic used); glycerine jelly (perfectly transparent); crimson marking ink; hair-restorer (colourless, no deposit, sine silver); aromatio vinegar; toilet vinegar (as Rimmel's); platepowder (like Stevens' "Silicon"); Oleum Flavum Conc., for pomades (colour stable); soluble essence ginger (like Hay's); corn solvent, clear (not acid); liquor copaihæ comp. c. buchu et matico (mixes clear with water); gonorrhea paste, excellent (Dr. Ricord's); taraxacum and podophyllin (resembles Pepper's); with many others; send stamp for list, stating wants. The toilet preparations are identical with those prepared by a wholesale West-end firm; others equally good; all inexpensive to make; 5s. each (five for 1l.). Readers are cautioned against cheap sud worthless imitations. I was first to advertise formulæ in this journal. "Analyst," care of Mr. Warnes, 130 Camden Road, N.W.

Gonorrbæa in all its stages and complications, successful treatment, 2s. 6d.; also, primary, secondary, and tertiary syphilis, 2s. 6d.; menthol cones, relieve toothache, tic, neuralgia, and sciatica instantly; Parrisb's chemical food, syrup hypophosphites (equal to Fellow's), Is. 6d. each. Address, "Surgeon," Hebburn-on-Tyne.

Satisfaction guaranteed .- "Fumigating Ozonic Ribbon," deliciously perfumed, agreeable, and economical disinfectant, 31. yard; " Marking Ink," jet black, judelible, can be honestly recommended; "Corn and Wart Eradicator" (iodine and salicylic acid), rapid, painless, almost infallible; "Anti-spasmodic Elixir" (ginger, camomile, &c.), rapidly dispels wind, and gives tone to the digestive organs: "Influenza Mixture," simple and effectual remedy for colds. influenza, &c.; "Stomach-corrector," invaluable for biliousness and all stomach derangements; "Essence for Deafness," best and surest specific ever offered: "Chilblain Remedies," invariably give immed ate ease; "Glycerine Cough Linetus," always reliable, pleasant taking, quickly cures most obstinate cough; " Hooping Cough Syrup and Embracatiou," used in conjunction, will cure severe cases, syrup most agreeable, embrocation resembles Roche's; "Flavoured Browning," most neeful culinary adjunct, gives rich appearance and appetising flavour to gravies, &c.; "Glycerine and Almond Jelly," three colours, attractive appearance. firm, and saleable; "Mist. Gonorrhea" (capivi), nauseous taste covered, efficacious and reliab'e; "Cryptzymosis," infallible injection for gleet, cures long-standing cases, very profitable; "Campholyde, certain external specific for neuralgia and nerve pains: "Amygdaline Balm," elegant and useful proprietary for softening the skin, quarter price of glycerine: "Lime Cream and Glycerine," quite inseparable, creamy, snow white, guaranteed best in market, from 2s. 6d. gallon: "New Remedy for Toothrehe," gives instantaneous ease, infallible, non-poisonous: "Nigerine," jet black, waterproof patent Nigerine, jet black, waterproof patent blacking, equals Nubian, quarter price, contains oil, and improves leather; "Rheumatic Embrocation," best and cheaoest remedy in existence for rheumatism, sciation, &c., 7d, lb.; "Digestive Relish," sciatica. &c., 7d. lb.; "Digestive Relish," not delicious, appetising sauce in creation, preterred to Yo'kshire, cotts baff; "Quinine and Iron Tonic," bright, unchangeable, and equal to Pepper's; "Worm Syrup." purely vegetable, pleasant, rapidly effective; "Occasional Pills" (for ladies), preterred by many to Welch's or other fem'le pills, no decomposition; "Lavender Water." equals Sainsbury's in aroma and darability of fragrance; "Hair Restorer" (ine sulpur), gragatage dante egual to any adverof fragrance; "Hair Restorer" (sine supplur), guaranteed quits equal to any adver-plur), guaranteed inexpensive; "Efferphur), guaranteed quite equal to any advertised preparations, inexpensive; "Effer-vescent Depurative Saline," fucsimile of Eno's, entirely soluble, keeps well, 10d. lb. All above are guaranteed genuine, honest formulæ. Money returned or recipe exchanged if not approved of. Recipes 1, 1d. each, 3 for 2s, 6d, post free, with full direc-tions for making, doses, uses, and all par-ticulars. T. Brooks, Chemist, Louth, ticulars. T. Brooks, Chemist, Liocolnshire. Detailed list post free.

Miscellaneous.

Second-band pill machine, complete, 5-grain, makes twenty-four, 5s.; nine packets Day's ned deecch, 5s. Fraser, Chemist, Farres.

Maboguy desk-case, 28 high by 22, 25s.; Pharmaceuteal Journal from 1872, a few numbers short, 15s. tne lot: six volumes Clarke's "Commentaries," 15s. W. L. Preston, Chemist, Barrow-in-Forness.

Cheap, five large enemas in boxes, as Maw's fig. 18; ...lso, three letter weighers and weights, brass, up to 4 oz.; four second-hand specie-jars, in fair condition. Apply to G. Stickland, 109 High Street, Cheltenham.

Gentleman's silver watch, by Bennett, Cheapside, crystal case, in good going order, with silver large link albert, a bargain, 50s.; also, ladies' gold watch, by Dent, Strand 50s.; very cheap. 72/4. Ol. male-fern capsules, small honeycomt journals, bound, from 1854: hucbu pyrethri, aigitalis, &c. 72/

About four dozen quart Carlsbad Wai lahels. quite clean, 6s. per dozen; six do: large Zoedone, 5s. per dozen cases, and bot's free. J. Meredith, Chemist, Brecon.

J. Meredith, Chemist, Brecom,
Post pill-boxes, 5 gross No. 5, 3 gro No. 8, 1 gross No. 15; turned wood box gross No. 2, two gross 7, four gross 8, the gross cach 9 and 10, 1½ gross 13, gross 133 per cent. off Maw's list, all in good olition; ess. bergamotte super, 8s. 1b; 6 gro once round perfume bottles, suitable for persents, 5s. per gross. Powell Sons, 27 graphs Street, Bristo scents, 5s. per gross. Powell Chemists, 27 Temple Street, Bristo

Pfleiderer's machine (for masses, 1 leb to 13 inch), perfect; the Chemist and agaist, 1869 to 1882 inclusive; "Nauths swimple-belt, Maw's; large silvers!" ruby smelling bottle; variety of instrumats for smening bottle; variety of instrinats to teeth extraction; fountain aqua man supply and waste arrangements; be glass show case, 12½ by 12½ by "full" Cabinet" sewing-machine, by Weler & Wilson. Particulars, Market Place troud.

WANTED.

Waroer's pill-vases. Lawrence, Chem: Oban Galls, ruby shellac, sacch, net, large aposition mortar. Adams, 74 Oxford Street, ford.

Dental instruments, second-hand. J. 23 Square, St. John's Wood, N.W.

Bentley's "Botany"; scales as fig. 7 M. M.

1A Hamilton Street, Camden Town order M. A mixing machine, up to 14 lbs., Brace's preferred. J. Hardy, Bishop's Stortfo

Snrgical instruments, sp.ints, &c. Houghton-le-Spring.

Genuine heeswax, cheap, cash or exchige for spectacles. 73/11. Squire's "Companion," last edition, st

and condition. Duck, Chemist, Ca ff.

Six oz. pomade-bottles, varnished to Kay Stainland. Second hand "Mater'a Medica," Muter cheap

Apply, Bowes, 15 Flowergate, Whi Suppository mould for six, electroplate Met-calfe, Chemist, Hull.

Seconds castor oil wanted; also pare | wax

70/20. Swaale's corn-plasters : state price. E ould

Son, 59 Moorgate Street. Ro'ary pill-machine to make pills 1 in diamo

A small still; give full descriptions ar lower price. "Alpha," 16 Loampit Vale, I shan S.E.

One or more shares required in emist Aërated aud Mineral Water As lation 66/24.

Desk-case or desk; petroleum cistern bol 200 or more. W. L. Preston, nemis 200 or more. W. Barrow-in-Furness.

Sheep dipping apparatus, and 40-g; n oi-cistern, with lid. both good coition cheap. Wright, Knaresborough. and 40-gr p

Attfield's "Chemistry," and "British copocia." Address, Russell, care of Chislehurst, West Kent.

Magneto-electric machine, single o doub magnet, in box, complete. Metcalfe lemis

The Chemi t and Druggist for Februs 1881. Thomas Hodgkinson Preston King-81 Bishopsgate Street Without, E.

"Enterprise" drug-mill, root-cut tir worm, and suppository-mould.
G. Windeott, Wellington, Somerset

Pereira's "Selecta e Prescriptis." "Sallust," and books for Minor Exa ation &c. State lowest price. Aleph, c of J. Kershaw, 179 Lord Street, Southpo

go'd-latelled bottles, good c douantity of pots; bell-metal morts pill machine; carboys, &c., ver parry, 148 King Street, Hammersu

Second-hand dental forceps, storp an scaling instruments, also specil case.

Any one wishing to dispose of abov "Pharmacist," Mesars. Newbery 1 King Edward Street, E.C.

Two pear-shaped globe carhoys, 10 gal. , cut glass stoppers: 200 to 300 shop bot , with gold labels in good condition; ut 20 gold labels, in good condition; good 4-lb. covered jars, gold labels condition. F. Parsons, Pharm atica condition. F. I Chemist, Leicester.

Trade Report.

Board of Trade returns for September show that the imports amounted to 32,307,000%.— a decrease of 8:00% or $2\frac{1}{2}$ per cent., and the exports to 20.495,000%—a dease of 427,000% or 2 per cent. In the case of the former, th fore, there is rather less activity relatively to last year th there was in August, while the tendency of the exports is actically unchanged, there having been a slight, but alst continuous diminution month by month throughout thear. Their falling-off, however, has amounted during there quarters to only 2,470,000l., or under 15 per cent., whis not a very serious reduction, considering that the fig. for 1882 was over 10,000,000l. larger than that for 18 The falling-off during September is accounted for by rections in the shipments of iron and steel, copper, and con manufactures.

Balkali trade shows a moderate improvement, but the bu ess in other chemical products continues to manifest the coracting tendency which we have so continuously The figures for these departments are rer ked upon. giv below :-

Sept., 1882 Sept. 1883 .. cwt. 617.539 .. value £189.869 Kali 624.365£195 595 her chemicals £204,802 £169,995

MINCING LANE, October 13.

I improved position of our markets has been fairly ma ained, although recent events have tended to check buess to a certain extent, and have created a feeling of geral mistrust which comes unfortunately just as we appeal to be settling down to a happier state of things.

I failure of the old-cstablished firm of Messrs. Suse & Sibi, merchants, of 35 Lime Street, with liabilities estimay at no less than half a million sterling, has been annoced. This house, established in the year 1815, for maryears enjoyed the highest reputation as a mercantile finand the present difficulties are understood to have aris from the causes which have of late years weakened so maiof the old houses, coupled with some very heavy losses expenced in the foreign banking department. We understar that the principal creditors of the firm are abroad, and herefore hope that no consequent effects will have to be ported here.

I reduction in the bank-rate on September 27, to speent, is an element in favour of increasing trade.

T. Drug sales on the 4th inst. showed altogether more and a very fair antity of the goods offered passed the hammer.

AES.—Of 124 cases Cape offered in last sales, 88 cases sold prices varying from 35s. to 50s. 6d.

A M.—There is a good demand for home trade at 6% per lon se lump, and 61. 10s. ground in bags.

A LMONY easier at 211. 10s. per ton. There is however a firm tone now in the article and little only offering in pub sales, thus the importer's position is strengthened and an irease of demand might bring about a reaction in price at a moment. REGULUS at 391. per ton offers so little indiment to the refiners as to render them indifferent wheer to sell or no.

Agnic is unchanged at 10s. 9d. per cwt. landed for

Bk in last Tuesday's sales, although a very reduced quaty was offered, failed to make any improvement. Pric uncharged, and only a very moderate quantity sold.

BACHING POWDER maintains its position, and up to the esent the reduction of 10 per cent. in the output agre upon by the various manufacturers appears to have hadery successful results. 91. 10s. to 101. per ton is the esent price, and for contracts for 1884 delivery a littlenore is asked.

Blax.—A fair amount of trade doing at 58s. 6d. per cwt.

nett 61s. less 2½ per cent. per. cwt.

CUMBA ROOT contines to fail in finding buyers, and in last ,es 160 bags dull offered were all bought in at 16s. to

COMILE FLOWERS Good new ordinary flowers are now orth 51s. per cwt., whilst some extra line are obtain-

able at 56s. There is a steady demand, and an inclination towards firmness on the part of holders. The stock of old flowers is almost nil, and for what little remains 15s. to 42s. 6d. per cwt. is paid according to quality. Although we do not expect to see such an advance in this article as took place at this time last year in consequence of the hop famine, still an advance in prices would not surprise us, as from all reports it is doubtful whether this year's erop (by no meansa plentiful one) will prove sufficient to meet the demandthroughout the season.

CAMPHOR.—About 300 cases new China were sold in public sale last week at 60s, per cwt. English refined unchanged at 1s. per lb. in bells. French, 11d per lb. saucers.

CARDAMOMS steadily maintain values: Malabar at 7s. 6d. per lb.; Mangalore, bleached, 8s. 6d to 10s. per 1b.

CHIRETTA quiet and without demand at 31d. to 4d. per lb. nominally.

CLOVES — Although offered lately in smaller quantities in public sales, prices have given way to 63d. per 1b. for fair

COCHINEAL.—There has been more business doing, and deliveries one week reached 248 bags. There is no improvement in values, however, which are: Lima and Mexican 8d. to 9d. silver; 9d. to 11d. black, per lb.; Teneriffe, 9d. to 11d. silver; 11d. to 1s. 9d. black, per 1b.

COD LIVER OIL is no stronger, as proved by the fact of 137 casks being all bought in at public sales at prices vary-

ing from 7s. to 14s. per gallon.

CREAM OF TARTAR flat at reduced price of 131s, per cwt.

for firsts.

CUBEBS keep very steady. In last sales 104 bags, newly arrived, partly grey and stalky, sold readily at 121. to 121. 2s. 6d. per cwt., and it is now ascertained beyond loubt that the recent volcanic eruption in Java seriously injured, and in some cases utterly destroyed the plantations. Good quality are worth 12l. 15s., and very scarce.

ERGOT OF RYE is in a slightly improved position, 31 bags Russian having recently found buyers at 7d to $7\frac{1}{4}d$. per lb.

ESSENCE OF LEMON is very quiet, at 5s. 6d. to 7s. 6d. per lb. according to quality.

GALLS .- China and Japan sorts are quite without demand. Turkey are worth 40s, to 57s, 6d, per cwt. according to

GENTIAN ROOT is quiet here, although advices from the Continent speak of a rise as being probable.

GLYCERINE.—The lack of business continuing, prices are again easier, and best 1260 chemically pure quality is now quoted 77s. 6d. per c vt.

IODINE unchanged at 4d per oz., resublimed 6d.

IPECACUANHA.-Prices are irregular although taken generally somewhat higher, and some unusually fine quality sold in last drug sales at 5s. 5d. per lb.

ISINGLASS.—At the monthly sales held on September 25, only the very small quantity of 75 packages Bombay, 121 cases Penang, and 37 cases Saigon were offered, and of which only 70 sold as follows: Bombay purse and good sorts old tongue at higher prices, Penang less steady, Kurrachee slightly dearer.

The next sales are fixed for October 23.

JALAP is easier, the better qualities failing to find buyers

at 10d. to 11d. per lb.

LEMON JUICE is lower, and holders in Messina have been obliged to accept 22l. 10s. pcc pipe f.o.b., whilst for shipment next year 211. 5s. would be accepted.

MORPHIA SALTS, 5s. 6d. per oz., with only a moderate

trade doing.
OPIUM.-Without any material change in prices some very considerable business has recently been done in shipping qualities, but in the manufacturing sorts there is no improvement to report.

OILS .- Anisced unchanged, at 7s. 8d per lb; Citronelle steady, at 15d. per oz. American Peppermint Oils are firmer—II. G. Hotchkiss at 13s. 3d.; Hale & Parshall's, 12s. 9d. per 1b. MENTHOL CRYSTALS have further advanced, and are now making fancy prices. The new crop should however arrive here within the next three months' time, and we are informed on good authority that, owing to the appreciation of this article now as a neuralgic remedy in Enrope, although hitherto but a by-product in the manufacture of Japan peppermint oil, it will now become a staple industry. It is gratifying in these days of prejudice to see how rapidly

the good properties of this little article have become appre-

ciated by the public generally.

OTTO OF ROSES .- A steady business is doing at unchanged prices of 15s. to 38s. per Turkish oz., and advices from Constantinople to date report a firm feeling as existing on the Turkish markets. The stock also being small and firmly held, we do not expect to see any relaxation of prices.

PIMENTO.—Although deliveries continue large, reducing stock to less than last year's figures, the price is lower, and fair quality is now obtainable at 27s. 8d. per lb.

POTASH. - e hlorate, 61d. spot, 7d. forward delivery with a firm market and moderate business done. Prussiate slow of sale at $9\frac{3}{4}d$. to $10\frac{1}{4}d$. per lb. according to make. Bichromate, 5d. per lb.

POTASSIUM IODIDE.—English makes 5s. per lb., with only a mederate trade d ing. Foreign makes probably a trifle

QUASSIA.-24 tors were sold last week without reserve at 30s to 32s, 6d. per ton.

QUICKSILVER, at the reduced price of five guineas per bottle, emirely fails to attract the attention of any but

actual cor sumers.

QUININE.—"Anylow" is the only word we can find to express the present posit on of this extraordinary article. A great deal continually meets the car about the reported com. bination of manufacturers, and the American trade journals n a most conclusive manner account for the present stagnation in the article as the natural result of the clearing off of all secondhand parcels before the operations of the "Combination" come into effect, but we fear if they wait until secondhand lots cease to be offered they will have to wait a very long time; for, taking for granted that the "Combination" were to draw a hard and fast line and sell only to consumers in the future, what is to prevent a druggist from making a contract with the 'combination' and afterwards re-selling wherever he thought ht? Morcover it is quite open to others to commence the manufacture of quinine, either in this country or abroad. Already rumours of this sort are being circulated, and most assuredly neither the men nor the capital will be wanting should artificial means succeed in rendering the profit sufficiently attractive. Prices are uncharged; Howard's, 8s. in vials; French, 1 cz. vials, 7s. 6d.; German, in tins, 7s. 3d. to 7s. 6d. per oz.

SAFFRON is higher on the other side, where a rise of 5 to 10 per cent, has taken place. Good Valentia sorts are worth 40s. to 44s. per lb. Alicante qualities, 25s. to 30s.

SANTONINE, 11s. 6d. per lb. in quantity.

SODA CRYSTALS .-- After giving way a little, prices are now again frm at 3l. 9s. per ton. ex. ship. Ash is slow of sale at 12d per cent. per cwt. landed. Bicarbonate steady at 8s. per cwt. landed. Caustic is in good demand for export, and prices are higher, at 9s. 6d. per cwt. for cream, and 9s. 9d. per cwt. white.

SULPHATE OF AMMONIA, 16l. 10s. to 17l. per ton-not

much business doing.

SULPHATE OF COPPER has continued scarce and in good demand; price has advanced to 23s. 6d. per cwt. for ordinary first quality.

VANILLOES are dearer about 10 per cent. all round; middle

to long beans 10s. 6d. to 25s. per lb.

WAX CARNAUBA has reached the high figure of 6l. 2s. 6d. per cwt. paid.

OPIUM.—Messrs. A. LAVINO & Co., Smyrna, report (Oct. 1883):-The market appears to be in a waiting attitude on the part of both buyers and sellers, with little disposition to press stocks for sale and an unwillingness to buy beyond current wants. Sales aggregate 209 baskets at unchanged prices, of which 73 were for shipment to China and the Straits Settlements.

A change for the better in this market can hardly be expected before a revival is noticed in the American market; the prospects for this, however, are not regarded as favourable. China alone could offer an important outlook, but for that purpose quotations will have to be shaded somewhat, as our descriptions can only find their way to the East to a large extent when invoiced at figures below 11s. f.o.b.

Total arrivals since June 1: 2,122 baskets, against 1,599 for the same period in 1882. Receipts show a good deal of irregularity this year, supplies from some of the most largely

producing districts being kept back by the Government officials owing to some difficulty with tithe-collector

Arrivals at Constantinople are coming in more frey, and

amount to 1,100 baskets against 650.

We may here state that the latter market has acred on the late years a greater importance owing to its receing this entire crop of the Malatia and Tokat districts the oduce of which, usually styled "soft shipping" Opium, etche such high piles that growers are yearly increasi their production. This description of opium goes almosexclu sively to Peru and other South American markets, to trade being carried on through London houses.

e now quote				
Boghaditch new crop		13 : 9d.	1	
Yerli ,,		12s. to 12s. 4d.	per. lb. fb.	
Current Drug ,,		11s.	Smyrn	
Tchikenti (refuse)		9s. 7d. to 9s. 9d.	Salyin	
Old Opium (1882)		10s. 9d. to 11s.)	

Concerning the factory for making Santonine, nea Tasck kend, we are further informed by the European aget Mi J. D. Bieber of Hamburg, that the buildings are sing on favourably, and that the machinery is on the way Turk es'an: but the great difficulties of transport on can cara vans, which occasioned such a high freight on the eme-Santonica, prevail in a still greater measure on the taspora of the heavy machinery, and it will therefore be early year before the first Santonine from this factory cabe ex pected in the European market.

Prices are at present so very much reduced by the udde sale of the large quantities of Scm. Santonica stor up 1 Russia, that any new reduction of the price of Sanhine in not to be expected by the opening of the new facty; o the contrary, if any sudden demand should come from the East, a material rise of the price is almost certa

Sem. Santonica cannot come forward from Turktan and the present prices, which are only about 75 per cenof th freight paid for the camel transport through the dest, and at this year's Nishny Novgorod fair there was not copoor of Semen Santonica offered.



CAFE VIERGE.

UNDER this title Messrs. Allen & Hanbury and Ri way Co. have brought out jointly an essence of coffe which really does give satisfaction. It has no sour taste (smel but instead diffuses in a high degree the purest coffe rome One or two teaspoonfuls added to a cup of boiling rk an water make one of the most tempting of beverages.

WILLIAMS' PATENT IMPROVED GLASS SYR GE. THE novelty in these springes consists in the substitution for the cork generally used of a solid plug of har wood made to fit the tube watertight by means of a broatindian rubber band. This is a decided improvement. T plug are made of cocus wood (strongly recommended) b wood ebony, vegetable ivery, &c. The syringes are made y Mr Wi liams, of Bow.

FIELD'S POCKET INHALER.

In a neat little package the inventor of this m ature apparatus supplies for sale at a shilling a little b wood inhaler, in shape somewhat similar to a cigarette hole, but into the tube of which is packed a small piece of onge. There is a small phial of an inha'ant of phenic chacter, and for use it is only necessary to moisten the spon with this and inspire the vapour through the tube. It is commended for cases of irritation of the throat, broach s, &c. The manufacturer is Mr. F. J. D. Field, 197 Blad riars

Monthly Price Current.

prices quoted in the following list are those actually obtained in fincing Lane for articles sold in bulk. Our Retail Subscribers must not expect to purchase at these market prices, but they may draw from hem useful conclusions respecting the prices at which articles are aftered by the Wholesale Firms.

	mered by the Wholesare Links	•									
	EMICALS.	1		it A	(ont			This	M	ont	h
	Acetic per lb.	8	$0 \frac{d}{2}$	4 to	. 8	d. d . 2		3. d.) (
	pure ,,	1	0 5		. ,	9	(5	to		
	glacial ,,		0 8 0 0	•							
	Ex Gum per oz.		0 0	•		3 6 0 €}	0		••	(
	Citric,		1 8		. (0	1	8		ì	
	Gallic		3 2 4 6	• •			3		• •	8	
	Nitric per lb.			• •			0		••	7	
	Oxalic		5	₹.,		6	0	6		Ö	
	Sulphuric,	1 6		-			0		• •	0	
	Tannic,			• •	. 9		6	9	• •	9	
	Tartaric, English ,,	1	7	ł	. 0		1	7	•••	0	
	foreign ,,	2:			0		21	f 1/2	••	0	
	star ,,	40		• •	0		39	6	••	0	
	SENIC, lump,	24		••	0		24	6		0	
	powder,	10		• •	10 8		10	6	• •	11	0
	roll	8		• •	10		8	9	••	8 10	6
	flour,	10		••	12		10	0		12	
	YCERINE, German	1 50	0		85	0	77	c		00	_
	crude brown,	40		••	45		40	6	••	80 45	0
	DOFORM per lb.	8	0		8	2	8	0		8	2
	oine, dry per oz.	0		• •	0	0	0	4 6	••	0	0
	GNESIA, calcined per lb.	0		••	0 1	4	0	10	•••	0	0
	Hwds	5	0		0	0	5	0	•••	0	0
	ECIPITATE, red per bott.	107	6 11	• •	0	0	1(5	11	• •	112	6
	White	2	10	••	2	111	2	11 10	•••	0	$\frac{11\frac{1}{2}}{0}$
	USSIAN BLUE	1	8		2	0	1	8		2	ő
	NTONINE	12	6	• •	0	0	11	6	• •	0	0
	YMOL	7 21	6 6	••	0	0	10 21	6	• •	0	0
	L15-		•	••	•	•		v	• •	U	U
	lum per ton powder	120	0	• •	0	0	129	0	••	0	0
	Ammonia:	13)	0	••	0	0	120	0	••	125	0
	Carbonate per lb.	0	61		0	0	0	61		0	0
	Hydrochlorate, crude,	200	_		5 00		200	_			
	white per ton Sulphate	600 330	0	••	760 3t0	0	600 340			760 360	0
	301, Capeper cwt.	83	ŏ	••	96	ŏ	83	^	• •	96	0
	Red	70	0		85	0	70	0	••	9)	0
	Oporto, red, aching powder,	38 9	9	••	42 10	0	33	0	• •	42 0	0
	ax, British refined.	58	ő	••	52	ŏ l	58	Δ	• •	62	0
	omel nor lh	2	6	••	0	0	2	6	• •	0	0
	oral hydrate," Liebreich's,"	4	5 6	••	4 6	7	5	0	• •	4	7
	per:	•	٠	••	0	۰	•	0	• •	6	0
	ulphateper cwt.	20	6	• •	21	0	20		• •	21	0
	peras, green per ton rosive Sublimate per lb.	55 1	0 11	• •	0	0	55		• •	0	0
	am Tartar, Frenchper cwt.	132	0	••	0	0	1 131	Δ	•	0 133	0
		110	Õ		Ğ	0	112	0 ,	••	0	ŏ
i	om Salts	4	0	••	6	0	4	Δ.	• •	6	0
		40	0	•••	5	0	40	0	• •	5 0	0
	ULU, IT WOS.	72	0	••	0	ŏ	72	0		0	0
	pulse ordrigg	6	0	••	0	0	5	6 ,	• •	7	0
7	ash:	2	3	• •	2	4	2	8 ,	••	2	4
	ichromate	0	5		0	0	0	5 .		0	0
	arbonate : Potashes, Canada,										
	1st sort ner curt	29	0		0	0	29	0.		0	0
	L carrasnes, Canada.			••	0	"	20		•	J	U
	hist sort	46	0	••	48	6	46	0.	•	46	6
	TROOTETO	0	5 <u>1</u> 10	• •	0	0	0	οï	•	0	7 l(}
	red	1	11	••	2	ŏ				2	0
1	ilphate per cwt.	10		••	11	ŏ	10			11	6
•	romide per lb.	1	6		0	0	1	6.		0	0
	House the contract of the	9	^	• •	o	0	9	Δ.	:	ő	0
	dide per lb.	5	Δ.	••	Ö	ŏ	5	0 .		ŏ	ŏ
•	ilphate, British, in										
	OUTGIES POW OF	8	0	• •	0	0	8	0.		0	0
		7	6	••	0	0	7	8.		0	0
٤	Acetos	7	0.9	• •	0	0	7	6.	•	0	0
		0 44		• •	45	0		$\frac{1}{0}$:		0	0
			-					•	•	Ü	•
	engal, 6 per cent. or under	19	6		0	0	10	0		10	0
	99	13	0	• •	U	0	18	9 .	•	19	0

IND DRUGGIST.	529
Soltnotro : (cont.)	Lost Month (mais Mana)
Saltpetre:—(cont.) Bengal, over 6 per	Last Month This Month s. d. s. d. s. d.
centper cwt	. 0 0 to 19 0 18 0 to 18 6
British, refined ,,	24 0 25 0 24 0 25 0
Soda: Bicarbonate, Hwds,	7 9 8 0 7 9 0 0 45 0 0 0 45 0 0 0
Carbonate:	
Soda Ashper deg	0 11 0 11 0 11 0 11
Soda Crystalsper cwt. Caustic,	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Hyposulphite ,,	8086 8086
Nitrate	12 6 0 0 11 3 0 0
Zinc Sulphate, ,, SUGAR OF LEAD, White ,,	12 0 14 0 12 0 14 0 30 0 34 0
DIOWII "	26 6 0 0 26 6 0 0
VERDIGRIS per lb.	$\begin{bmatrix} 0 & 10 & \dots & 1 & 0 & 0 & 8 & \dots & 1 & 0 \\ 2 & 3 & \dots & 0 & 0 & 2 & 3 & \dots & 0 & 0 \end{bmatrix}$
VERMILION, English,	2 3 0 0 2 3 0 0 2 5 0 0 2 4 0 0
DRUGS.	
ALOES, Hepaticper cwt.	
Socotrine ,, Cape, good ,,,	60 0 65 0 50 0 59 8
Inferior	45 0 50 0 40 0 50 0
Barbadoes ,,	60 0 150 0 60 0 150 0 43 0 120 0 50 0 100 0
Curaçoa ,, AMBERGRIS, grey per oz.	48 0 120 0 50 0 100 0 60 0 133 0 75 0 93 0
BALSAM—	
Canada per lb.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Capivi, Peru,	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Tolu	2 0 2 1 2 4 0 0
BARKS— Canella albaper cwt.	
Cascarilla	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
CINCHONA—	1
Peru, gray per lb. Calisaya, flat,	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
. quill	3 9 8 0 4 0 7 0
Carthagena	0 6 2 8 0 6 2 8
Cuprea	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
New Granada,	1 0 4 0 1 0 4 0
Pitayo & Maracaibo	0 6 1 10 0 6 1 10
Red	$\begin{bmatrix} 2 & 0 & \dots & 9 & 0 & 2 & 0 & \dots & 9 & 0 \\ 1 & 0 & \dots & 4 & 6 & 1 & 0 & \dots & 5 & 0 \end{bmatrix}$
	0 6 . 3 10 0 6 . 3 6
BUCHU LEAVES	0 2 1 4 0 2 1 0
CAMPHOR, Chinaper cwt. Japan	60 0 0 0 60 0 0 0
Refin. Eng per lb.	1 0 0 0 1 1 1 0 0
Tablets	1 1 0 0 1 2 0 0
CANTHARIDES, China , Russian ,	2 6 3 0 2 6 3 0 ? 9 4 0 3 9 4 0
CAMOMILE FLOWERS per cwt.	20 0 56 0 20 0 70 0
CASTOREUM per lb.	23 0 32 0 22 0 32 0
CHIRETTA	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
ERGOT OF RYE her In	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
FRUITS AND SEEDS (see also Seeds and Spices)	
Anise, China Starper cwt.	95 0 100 0 95 0 100 0
Russian	20 0 80 0 20 0 30 0
Beans, Tonquin per lb. Cardamoms, Malabar,	3 0 5 9 3 0 5 0
good	5 0 8 0 6 0 19 0
inferior,	4 0 4 6 4 0 5 0
Aleppy, ,,	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Ceylon	2 0 2 10 2 0 2 10
maiabar sorts	4 0 7 0 4 0 7 0
Cocculus Indicus per cwt. Colocynth, apple per lb.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Cubebs per cwt.	200 0 240 0 230 0 255 0
Cummin	30 0 24 0 30 0 34 0
Juniper Berries	14 0 0 0 14 0 0 0 8 6 11 0 8 6 11 0
Nux Vomica	9 0 12 6 9 0 12 0
Tamarinds, E. India ,,	8 0 12 0 8 0 12 0
West India, ,, Vanilla, large per lb.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
inferior	8 0 15 0 8 0 18 0
LOWERS—Dalmatian ,,	95 0 90 0 60 0 91 0
Caucasian	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Jamaica	30 0 40 0 30 0 40 0
IPBCACUANHA per lb. ISINGLASS, Brazil	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Tongue sort	2 6 . 5 6 2 0 . 5 3
East India	0 5 4 9 0 6 5 0
West India	2 3 4 6 2 6 4 5 7 0 10 3 7 0 10 8
" Simovia "	2 2 2 4 2 2 2 4
JALAP, good	0 9 0 11 0 10 0 11
infer. and stems ,, LEMON JUICE per deg.	0 7 0 9 0 7 0 8
LIME JUICEper gali.	1600 1600
Liquokick, Spanishper cwt.	55 0 160 0 55 0 100 0
MANNA, flaky per lb	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
MUSK, Tonquin pod per oz.	67 6 87 6 65 0 80 0
Grain	40 0 70 0 35 0 60 0
OILS (see also separate list)	40 0 50 0 40 0 50 0
Almond, expressed per lb.	18 15 18 15
Castor, 1st pale	0 41 0 0 0 0 41 0 0
Cod-liverper gall	0 3g 0 0 0 3g 0 0 6 0 16 0 8 0 16 0
Part Part	

					Cooper 15, 53.
	Lest Month	This Month	i	T 15 12	This M th
Essential Oils:	Last Month	This Month s. d. s. d.	Oils:-(cont.)	Last Month	
Almond per lb.	30 0 to 0 0	30 0 to 0 0	SEAL, yellow to tinged per tun	£ s. £ s.	£ 4 £ 8.
Anise-seed, star ,,	7 7 7 9	7 7 7 8	brown	33 0 0 0	
., German,&c. ,,	8 0 14 0	8 0 13 0	SPERM	68 0 70 0	70 0 . 31 0 MENTION
Bergamot,	6 0 8 0	6 9 8 0	Cod "	36 0 0 0	86 0 . 0 0 PENTON,
Cajepntper bott.	3 0 3 3	3 3 0 0	WHALE, South Sea, pale ,,	30 0 34 0	34 0 0 0
Caraway per lb.	$\begin{smallmatrix}5&6&\dots&0&0\\3&10&\dots&0&0\end{smallmatrix}$	5 6 0 0	yellow "	28 0 0 0	30 0 0 0
Cassia ,, Cinnamon per oz.	* 0 * 0		Sardine,	27 0 0 0	24 0 . 30 0 [47, 800 2]
Cinnamon-leaf ,,	0 91 0 8	$\begin{bmatrix} 1 & 9 & \dots & 2 & 6 \\ 0 & 2\frac{3}{4} & \dots & 0 & 0 \end{bmatrix}$	OLIVE, Seville perton		25 0 27 0 braised to 38 10 39 0 lasted
Citronelle,	0 17 0 0	0 13 0 0	Gioja,	37 10 38 0 36 0 37 0	38 10 39 0 st by that
Clove per lb.	4 6 4 9	4 6 5 0	Levant,	36 0 0 0	36 0 . 0 0 red tinetur
Juniper	1 6 2 0	1 6 2 0	Mogador ,,	35 10 35 0	35 10 . 36 0 At. Af
Lavender, Exotic . ,,	6 9 8 6	6 9 8 6	Spanish	35 0 0 0	85 0 ., 0 0
", Mitcham "	130 0 0 0	130 0 0 0	Sicily,	37 0 0 0	97 0 A TREATMENT
Lemon,	4 6 6 6 0 13 0 0	5 6 7 6 0 15 0 0	COCOANUT, Cocbin "	38 0 0 0	38 10 0 0 girmue
Lemongrass per oz.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		Ceylon ,, Mauritius ,,	33 10 0 0 35 0 0 0	34 0 34 10 sings be
Neron ,,	0 8 0 0	7 0 0 0	Direct fine	11 10 0 0	35 0 0 0 n ikatical
Orange per lb.	12 0 0 0	12 0 0 0	LINSEED,	19 15 20 5	20 10 20 15 mayoria, 50
Otto of Roses per oz.	15 0 38 0	18 0 38 0	RAPESEED, English, pale ,,	34 5 34 10	35 10 0 0 Mr. Presto
Patchouli	1 4 2 6	1 4 2 0	brown ,,	32 5 32 10	35 0 0 0 mindr on
Peppermint:			COTTONSEED,	30 0 0 0	30 0 . 30 5 3 1111217 011
American per lb.	11 9 12 3	12 0 0 0	LARD,	55 0 58 0	63 0 0 0 at 131 67b
(H.G.Hotchkiss) ,,	13 3 0 0 30 0 32 0	13 3 13 6 25 0 30 0	TALLOW,	25 0 47 0	25 0 17 0 Re London
English,			TURPENTINE, American per cwt.	s. d. s. d. 30 0 . 0 0	30 0 31 0 Es sweet
German, Japan,	7 0 9 0	7 0 9 0	PETROLEUM, refined per gall.	30 0 0 0 0 6\(\frac{7}{5}\) 0 7\(\frac{1}{2}\)	00 0 0001 0
Menthol crystals . ,,	20 0 25 0	30 0 40 0	Spirit	0 6 0 7	0 6½ 0 0 Arble th
Rosemary	2 6 3 9	2 6 3 9	SEEDS.		A Martin
Sassafras,	2 6 0 0	2 6 0 0	CANARY per qr.	£0 0 58 0	60 0 75 0 1 demists,
Spearmint,	12 0 14 0	12 0 14 0	CARAWAY, English per cwt.	0 0 0 0	0 0 0 0 the person
Thyme,	2 6 0 0	2 6 0 0	German, &c. ,,	23 0 26 6	23 0 36 6 mit or any
Mace, expressed per oz.	0 2 0 0 14 0 18 0	$\begin{bmatrix} 0 & 2 & \dots & 6 & 0 \\ 17 & 0 & \dots & 20 & 0 \end{bmatrix}$	CORIANDER	10 0 21 0 36 0 38 0	38 0 0 0 althat th
OPIUM, Turkey perlb.	14 0 18 0 10 0 13 6	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	LINSEED, English,		
QUASSIA (bitter wood) perton	40 0 50 0	30 0 35 0	Black Sea & Azof ,,	40 0 0 0	40 0 0 0 True heca
RHUBARB, China, good			Calcutta ,,	40 6 0 0	40 6 0 0
and fine per lb.	2 9 4 4	2 9 4 4	Bombay,	41 0 0 0	40 6 10 0 3 21100
Middling to fair ,,	1 0 2 6	1 0 2 6	St. Petersburg ,,	37 0 38 0	35 0 18 0 TATA
ROOTS-Calumbaper cwt.	42 0 0 0	16 0 30 0	Mustard, brown per bshl.	10 0 15 0	
China	20 0 0 0	20 0 0 0	POPPY, East India per qr.	8 0 14 0	8 U 4 U n
Cus-Cus,	20 0 21 0	30 0 21 0	FOPPI, Mast India per qr.	43 0 0 0	43 0 0 0 min Phar
Galangal,	26 0 28 0	26 0 28 0	SPICES.		
Gentian,	28 0 0 0	30 0 0 0	CASSIA LIGNEA per cwt.	34 6 35 0	34 6 0 0 April 010
Orris,	23 0 50 0 42 0 60 0	23 0 50 0	Vera,	21 0 28 0	24 0 8 0 - am que
Pellitory, Pinkperlb.		42 0 60 0 1 6 0 0	Buds,	34 0 36 0	40 0 1 0 am ict.
T) h = 4 =	1 6 0 0	0 5 0 6	CINNAMON, Ceylon:		S. Takkar
Seneka,	2 5 2 6	2 4 2 6	1st quality per lb.	1 0 2 5	
Snake	1 6 0 0	1 6 0 0	2nd do,, 3rd do,,	0 8 2 0	1 0 2 3 2 la 0 8 1 6 12 (Tamly)
Saffron, Valencia ,,	39 0 43 0	39 0 44 0	Malliah anny	0 9 1 9	0 0 0 0
Alicante "	25 0 80 0	25 0 30 0	Chips	0 0 0 0	0 0 0 0 28 8 80 6
SARSAPARILLA, Lima ,,	0 6 0 9	0 6 1 0	CLOVES, Penang	1 7 1 10	0 2½ · 0 5 71 kee
Gnayaquil,	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Amboyna,	0 10 0 111	0 10 tO 11 MO HE had
Honduras, Jamaica,	7 7 1 0	4 0 0 0	Zanzibar,	0 7 0 7	0 63 0 0 He chemi
Sassafras per cwt.	0 0 0 0	0 0 0 0	GINGER, Jam., fineper cwt.	70 0 160 0	80 0 0 0
SCAMMONY, Virgin per lb.	30 0 85 0	32 0 35 0	Ord. to good ,,	50 0 65 0	
second and ordinary ,,	15 0 28 0	15 0 28 0	African ,,, Bengal ,,,	42 6 0 0	35 0 0 0 to ass
SENNA, Bombay	0 21 0 0	$0 2\frac{1}{2} \dots 0 0$	Malabar,		
Tinnivelly,	0 3 1 2	9 3 1 2	Cocbin,	45 0 . 112 0	
Alexandria, SPERMACETI, refined,	0 9 1 6	0 9 1 6	PEPPER, Black, Malabar per lb.	0 67 0 78	4 63 . IU U GE SINTA
American	0 91 0 10	0 103 0 0	Singapore,	0 (4 0 0	
SQUILLS	0 3 0 31	0 1 0 21	White,	0 84 0 0	0 94 U 99 Wer connec
GUMS.	£ s. £ s.	£ s. £ s.	Cayenne, Mace, 1st quality,	0 7 1 0	1 7 2 3 M Attheld 1 4 1 7 Aband and
Ammoniaci, drop per cwt.	2 10 3 5	2 10 3 6	2nd and inferior,	1 7 2 3 1 3 1 4	1 1 7 third one
ANIMI, fine washed "	17 10 20 0	18 0 20 0	NUTMEGS, 78 to 60 to lb. ,,	2 10 3 9	2 10 8 9 le lest in
ARABIC, pale picked	1 10 0 0	8 0 13 0	90 80 ,, ,,	2 9 2 10	
courts mid to fine		1 10 2 0 1 5 1 10	132 95 ,, ,,	2 0 2 6	2 0 2 6 Menst H
TUREEY, pick. gd. to fin.	5 0 9 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	PIMENTA	0 31 0 0	0 27 0 3 ld the ana
second & inferior ,,	2 5 4 10	2 5 2 10	VARIOUS PRODUCTS.		43 perfec
sorts,	2 10 3 5	2 0 2 15	COCHINEAL—		a I stating
Assarctida, cm. to fin.	2 6 3 10	0 15 4 0	Honduras, black per lb.	1 1 1 3	1 2 es la gallantes
Benjamin, Siam, 1st & 2nd	20 0 40 0	25 0 42 0	,, silver ,,	0 11 1 1	5 11 Bread
Sumatra	20 0 40 0 2 10 12 0	25 0 42 0 2 10 12 0	Mexican, black ,,		0 8 an 1 3 Til hand
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2 10 12 0 s, d, s, d.	s. d. s. d.	,, silver ,, Teneriffe, black ,,	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	סמניסט שיי
COPAL, Manilla	25 0 52 0	25 0 52 0	nilway	1 0 1 1	0 0 11 44 BOD
Angola, red	145 0 152 6	145 0 152 6	GALLS, Tky blue,	50 0 55 0	50 0 5 0 8: Ma no
DAMMAR, pale,	77 0 82 6	60 0 85 0	, China ,	63 0 0 0	62 0 Daid
EUPHORBIUM, 9, GALBANUM per lb.	17 0 20 0	17 0 20 0	IND1GO, Bengal "	4 0 7 0	1 9 E to future
GAMBOGE, picked pipe per cwt.	0 3 0 10 260 0 320 0	0 3 0 10 260 0 840 0	,, Madras,	1 3 6 0	2 0 6 Withit re-
GUAIACUM per lb.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0 91 . 2 0	"Kurpah,		1 9 B D Stell te
Kino per owt.		45 0 0 0	,, Oude ,,	3 0 6 6	3 0 6
Kowrie, sorts,	65 0 80 0	65 0 80 0	ROSIN, American per cwt.	5 3 12 3	5 6 O CENTORS
selected	105 0 240 0	90 0 220 0	SOAP, Castile,	28 0 0 (28 0 0 dates
MASTIC, picked per lb.	2 9 3 6	3 0 3 6	SOY, China per gall.	1 7 0 0	an o O What
Mynn, good and fine per cwt.		200 0 230 0	WAX, Bres, English per cwt.	£0 0 £0 6	E 19/8 17/8 12 (20)
OLIBANUM, p. drop	80 0 140 0	80 0 140 0	Jamaica "	6 0 . 6/15/	6 10 . 10 temper
ambor & vallow	40 0 45 0 36 0 0 0	40 0 45 0 86 0 0 0	East India ,,	00 0	2 3 · · · · · · · · · · · · · · · · · ·
SENEGAL		40 0 45 0	VEGETABLE, Japan, Paraffin per lb.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0 4 . 6
SANDARAC	55 0 130 0	90 0 110 0	WOOD, DYE, Bar per ton	£3 0 £3/12/6	0 10 0 50 80
SHELLAC, Orange,	115 0 127 6	80 0 140 0	Brazil,	12 0 20	05 0 I V Willeron
Liver,	84 0 90 0	75 0 80 0	Cam	7 0 29 0	16 0 0 (that there
THUS	25 C 0 0	25 0 0 0	Fustic, Cuba,	0 0 6 f 5 10 5/12/6	12/6 Timel
in sorts	200 0 300 0 20 0 180 0	200 0 260 0	Jamaica ,, Logwood, Campeachy ,,	5 10 · · 5/12/6 6 15 · · 8 10	8 0 as U Chrol
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	20 0 44 100 0	10 0 10 U	Tomoston	5 10 0 0	5 10] 0 % to
OILS.	£ s. £ s.	£ s. £ s.	LIMA, first pile	9 0 10 0	TO O OF THE PARTY
Skal, pale per tun	37 0 0 0	36 0 0 0	RED SANDARS,	5 5 0 0	6 0

Metropolitan Reports.

THE PROSECUTION OF HAMPSTEAD CHEMISTS.

M ALFRED PRESTON, of the firm of Messrs. Thomas H kinson, Preston & King, is also a member of the H pstead Vestry, and at a meeting of that body held on Somber 20 he raised the question of the recent prosecuti of chemists by that Vestry for the sale of spirits of nius ether and tincture of quinine alleged to have been of eficient quality. After inquiring by whose authority th ecent prosecutions had been instituted, he moved a re ution that, in future, prosecutions be not entered upon in ses where it may be found on analysis that the specific gr ty is not identical with that recommended by the Bish Pharmacopæia, so far as the spirits of nitrous ether is neerned. Mr. Preston contended that the prosecutions haveen, unwittingly on the part of the Vestry, very vexatic. He had had experience as a wholesale druggist of for years. The London Pharmacopæia ordered spirits of et, known as sweet spirits of nitre, to have a specific gr ty of 850, while the British Pharmacopæia required a spic gravity of 845. He had had many conversations mi practical chemists, especially since these prosecutions, an ota single person being an analytical or a pharmacoral chemist, or any one who in any way understood the tre, but said that the formula of the British Pharmao ia, respecting spirits of nitrous ether, was a most un isfactory one; because, however careful a person might be making this article at the time of drawing it from the stino one could guarantee that within a few hours, certair within a few days, the spirit of nitrous ether would sta the British Pharmacopæia test. Is it right, then, Mi reston said, that chemists, who are compelled to buy thirticle to put into their bottles, to take out the stopper an ell it in small quantities, should be prosecuted under the dulteration Act. (Hear, hear.) The article deterio-tat of itself. Is that adulteration?

... Baines: Yes.

Preston (warmly): It cannot be called adulteration, and Mr. Baines is so excellent a chemist and can produce an ticle that will keep, by all means, in the interests of the ade and of the public, let him at once declare it. Men whave made chemistry their study admit they cannot ma an article to keep and be used in the ordinary retail wa In these cases Mr. Heisch, our analyst, found a speic gravity of 847. The article therefore differed by tw egrees, and for that you have prosecuted honourable me under the Adulteration Act. Respecting the tincture of inine, the British Pharmacopæia says there is to be 8gins in every ounce. Mr. Heisch found over 6 grains, an Professor Attfield, who made an analysis for the de dants, found another grain, and added that half a grawould be lost in the analysis. This case had been ref ed to Somerset House, because there was some doubt in ; mind of the analyst as to whether the chemist had noucted in a perfectly bona-fide way. There was high awrity for stating that it is an impossibility to find seins in an ounce. He said, therefore, that these cases are scidedly vexatious—(hear, hear)—and he thought that the estry was bound, as far as possible, to make some regition, and, as honourable men, to express some regret.

Baines: No, no.

Chairman said it would be better if Mr. Preston confin himself to future action in similar cases, and not to saloything about reparation.

Baines said if Mr. Preston was of opinion that the very had done wrong he should meet the matter with a

resition and take a vote.

Preston: What has been done cannot be entirely reported in the newspals, and comments made upon them by writers who kn nothing at all about the real facts of the cases. In rai ay-carriages and elsewhere I have heard these cases spen of, and the verdict was "Serve them right" for not harg sold what they represented to sell. I hope my words wil o forth through the Press, and that it may be understo that, although these gentlemen have been ignomi usly dragged to a police-court, and that upon technical grods they may have been fined, still at the same time they are worthy of the confidence of the public, and that we, so far as we can, should endeavour to restore that confidence. Not one of those persons does business with my house. Therefore, I am not personally interested for the trade itself. I want not only Hampstead, but the whole of the districts of the metropolis, to understand that it is not fair to accuse chemists of adulteration of an article which deteriorates of itself. (Hear, hear.)
Agreeably to the wish of the Vestry, Mr. Preston handed

in a notice of motion on the subject for the next meeting of

the Vestry.

At the meeting of the Vestry on October 11, Mr. Alfred Preston brought forward the motion of which he had given notice, but requested the permission of the Vestry, as it had been suggested to him it was of too sweeping a character, to substitute the following:—"That in the opinion of this Vestry it is undesirable to prosecute chemists under the Adulteration Act on the article spirit nitrous ether, B.P., provided such article purchased be of not greater specific gravity than that recognised by the London Pharmacopæia. a new Pharmacopæia being in process of publication, and the present form for making the article being recognised as unsatisfactory by the best authorities." Mr. Preston said he felt sure the members of the Vestry would be glad that the analyst at Somerset House had completely confirmed the analysis of Professor Attfield in reference to the tincture of quinine; as, although they were always glad to support their officers, it was of far greater importance that a respectable tradesman should have been declared not to have been guilty of any fraud. He could not understand the Magistrate refusing to allow costs, and trusted the Chairman of the Sanitary Committee would see his way to recommending the Vestry to defray the costs incurred by the defendent. He recapitulated his previous arguments in reference to spirit of nitrous ether, B.P., which, he said, did not make a fair test article. He believed that public bodies and public men were respected just in proportion to the way in which they exhibit justice towards all classes, and it was, therefore, in the interest of the Vestry, as well as of those more particularly affected by the resolution, to use greater caution in future with regard to this article. Mr. Beeton seconded.

The Chairman of the Sanitary Committee opposed Mr. Preston's motion. The Committee had acted on the advice of their analyst, and though he acknowledged the analyst had been in error with regard to the tincture of quinine, it could not be disputed the spirit of nitrous ether was not such as was required by the British Pharmacopæia, either as regards specific gravity or the quantity of nitrous ether

it contained.

Drs. Alford and Greenhill entirely supported Mr. Preston in all his arguments, and the former said from the analysis of the articles upon which the defendants were prosecuted, he had no hesitation in saying no fraud had been attempted, and he should not have hesitated using them for his patients.

The amended resolution was then put, and carried with-

out any division, and amidst applause.

At the Marylebone Police-Court on Sept. 26 Mrs. Jane Allchin, a chemist, of 1A Elizabeth-terrace, Hampstead, appeared in answer to an adjourned summons, taken out by order of the Hampstead Vestry, for selling 3 ozs. of tincture of quinine not containing the proper quantity of sulphate of quinine, viz., eight grains to the ounce.--Mr. Ricketts, appeared to prosecute on behalf of the vestry; Mr. Glaisyer, solicitor, appeared on behalf of the Chemists and Druggists' Trade Association of Great Britain.—The case was before the Court a fortnight ago, when Mr. Heisch, the analyst to the vestry, certified that the sample of quinine which had been submitted to him contained 6.2 grains of sulphate of quinine per ounce.—Professor Attfield, for the defence, gave evidence showing that by the process of analysis adopted by him he found 7½ grains per ounce of sulphate of quinine, and said that the missing half grain per ounce was lost in the process of analysis.—Mr. Ricketts then elected to send a sample to Somerset House to be tested by one of the Government analysts. On the adjournment the certificate of the Somerset House authorities was read, and it stated that the sample contained not less than eight grains of sulphate of quinine.—Mr. Mansfield dismissed the summons.—Mr. Glaisyer asked for special costs, which Mr. Ricketts opposed.—Mr. Mansfield pointed out that the re-

ge udafterne the may bet

good jaste wi

ESTERNIT SO T szelby M. Tojie

£nl

s. and the Druggia

1 Lerinthismon

0

14

17

12

1

inu's cement.

puden usde

this of a

Signiff, an-

Copies of 5

erred Druggist

Siato poly to

inter Pharmac

that is shortly they have a

L milytarmacist

160-1 Food 1

toger is sport ambining that

to Other, Pert

a pulsibed in

the probably at

White Ink - !

Microsia for a

the with a r

CRICKET.

WESTMINSTER COLLEGE-NEW V. OLD STUDENTS .-Played at Kew on September 19. Score:-

New Students.	Old Studen's.
Wootton, b. Horne	Leech, J. P., b. Rutherford 14
120	1

Baiss Bros. & Co. v. Burgoyne & Co.-Match played at Kilburn, September 15, 1883. Score:-Finet Innings of Paiss Puns to Ca

First Innings of Baiss Bros. & Co. First Innings of Burgoune & C	0.
Welch, b. Jordan 3 Tate, c. Womersley, b. Welch .	25
West, l.b.w., b. Jordan 10 Fennimore, run out	. 2
Shenton, run ont 6 Pannell, b. Welch	. 11
Womersley, c. Tait, b. Jordan 5 Jordan, st. Shenton, h. West .	. 1
Peckover, st. Bew b. Tait 34 Bew, c. Shenton, b. Welch .	. 2
Welch, b. Flowerdue 24 Reid, not out	. 1
Gibson, c. & h. Tait 0 Russell, not out	. 1
Ross, not out 6 Flowerdue:	
Standring, h. Flowerdue " Taylor	. —
Cnmberland, c. Harwood, b. Sloder	. —
Flowerdue 0 Extras	. 7
Extras 6	
_	
95	50

BURGOYNE, BURBIDGES & CO.'S CRICKET CLUB.-This club played eighteen matches during the past season: lost 1, won 12, and 5 were drawn. Barclay & Perkins were the only firm who succeeded in checking the victorious career of this redoubtable club, and they only secured a win by three runs. Maw's Club, Travers & Sons, and Collard & Collard's had to submit twice to defeat, but Baiss Brothers & Co. made a draw.

LONG FIRM FRAUDS.—On September 27, Alfred Bixton (or Buxton), druggist, aged 26, with six others, was convicted of frandulently obtaining goods, and was sentenced to eighteen months' imprisonment with hard labour. His name is not on the register.

Provincial Reports.

EDINBURGH.

THE EDINBURGH CHEMISTS' ASSISTANTS' AND APPREN-TICES' ASSOCIATION will commence its session on October 17, when an inaugural address will be delivered by Mr. Claude F.

DRUGGISTS' WEIGHTS—The Record of the British Association of Inspectors of Weights and Measures says that since its last (quarterly) issue the Inspector had finished visiting all the chemists' shops, and in 67 per cent. he found unjust weights and measures after having been served with notices to have their weights and measures examined. In one shop a 5 grain weighed 7.7 grains, and there is no doubt it is desirable, and even necessary, that all weights, measures and scales should be under inspection.

MANCHESTER.

MESSRS, BRATBY & HINCHLIFFE'S ANNUAL PICNIC to their employés took place on Saturday, Oct. 6, at Knutsford, some 14 miles from Manchester. The party numbered about 90, including the partners with some friends, together with the workmen, their wives and sweethearts. The party put up at the Royal George Hotel, where dinner and tea were served, the intervals being employed in cricket, bowls, and other amusements. In the evening Mr. J. W. Hinchliffe took the chair, when speeches and songs filled up the time until leaving. The firm were heartily toasted, and Mr. Bratby presented each of the carters with a cheque for 1l. The break-up took place about 10.30.

WEXFORD.

Poisoning Case.—A strange case has occurred h. A delinguit young man named Kennedy, who frequently got drui, was and issued in a liquor shop on September 11, and had several quitities of drink. He seemed weak, and the clerk at last ga him of position in a glass of porter as much laudanum "as you woul serve on the bottom of a tumbler" to make him sleer The laudanum was in the house to be sold, but he had nev sold more than one or two half ounces. The man fell sleep about two hours later, and after he had slept four he's the clerk became alarmed and tried to rouse him. Docto were sent for, but when they arrived the man was dea An inquest was held but was adjourned, and the cle who served the laudanum was arrested and has since beecommitted for trial.



Balancing Books.

To The Chemist and Druggist-

SIR,-Would you oblige by giving, in your next issue, your opin as t the best method of striking the year's balance? I have been acstome to the following. (See enclosed.) Is it reliable? and what portio of the halance should you think it safe to draw for private purjes, &c supposing the tusiness to be extending?

Allow me to thank you for the valuable connsel you give from ime t time in your a journal, following which I have increased my own usines from 50 to 80 per cent. October 5.

	£	s.	d.
Stock-in-trade at end of			
year	514		
Cash sales	1,274	18	1
Ledger accounts paid			
in	345	14	0
Accounts owing, so			
much, less 10 p. cent.	100	0	0
Returns, discounts, and			
allowances	319	0	0

Stock heginning of year Grods bought Bad debts, estimated .. Interest on capital Carriage of goods Postage ... Advertisements Extra fitt ngs ... 15 ½ Apellet is per Sundry expenses Wages .. Rent, rates, taxes, &c. Balance ..

The figures are purely imaginary.

2,554 5 8

The foregoing would show the result of the year's transaction alway and the transaction always and the state of the year's transaction always and the state of the year's transaction always and the state of the year's transaction always and the year's transaction always are transaction and transaction always are transaction always supposing the stock to have heen taken accurately in hoth instars. W would remark, however, that something ought to be allowed for precise tion of fixtures, plant, &c., especially in cases where a manufactur, husi ness is carried on. The way bad debts are shown above is not entific. We presume it is supposed that 51. has been written off, and the 101. i doubtful. We suggest the following as a more systematic way caking as the the balance. To make it more complete we have supposed the some supposed the supposed the some suppose manufacturing husiness is carried on :-

GOODS ACCOUNT.

Τo	Stock-in-trade—first date
	Purchases
	Discount and returns
	Manufacturing wages
	Balance = gross profit

By Sales (day-book) ('ash-sales (cash-hook) Discount and returns Stock-in-trace-last dat

TRADING ACCOUNT.

To Sundry expenses
Advertising
Rent, rates and taxes
Bad debts
Interest on capital
Postage and incidental
Carriage and incidental
Depreciation of plant, lease, &c.
Balance = net prout, carried to
banking account

! By Goods account = halar gross on when profit

BALANCE SHEET.

To Creditors, as per list from Bought Ledger Balance, as per trading account

By Dehtors (as per list fre Sold Ledger) Cash at banker's Cash in hand Sundry fi tings and fixt s Plant, machinery, &c. Reserve fund to meet be ehts

As to the smount to draw, the answer is obvious. The only safe pl is to the same make every reserve, allow for interest on capital, and then leave a between earnings and spending to the advantage of the former.

Vaseline and Lard-A Dispensing Curiosity.

The Chemist and Druggist-

R,-Noticing in last month's CHEMIST AND DRUGGIST M. Vijier states the "found it impossible to get a perfectly homegeneous ointment" n the following prescription:—

						Gramm
Vaseline	• •	• •	• •	• •		 40
Ext. rhatan.					• •	 4
Ext. bellad.						 4

w me to say that I have dispensed the same in various ways, with alls every way desirable, and obtained a "perfectly homogeneous" ment. My modes of procedure were as follows:—

restly, I rubbed the ext. rhatany down with a few drops of water to vent any lumps being present, and mixed it with half the vaseline. I ted the ext. bellad, in the same way, and mixed the two ointments.

condly, I rubbed down the ext. rhatan, as before, then the ext. bellad., mixed them, and afterwards the vaseline, without the least difficulty, used a slab and bone knife, not a pestle and moutar, as probably did Vijer; and he may not have taken the precaution to rub down the acts to a smooth paste with a few drops of water before adding the inc.

is somewhat singular that unless ext. hellad, is subbed down with eriteannot be nearly so well mixed with vaseline, but forms the black is mentioned by M. Vijier, which any amount of trituration does not to fface.

may, perhaps, be useful to many of your readers to know that while eline is insoluble in water, water is not altogether it is luttle in vascline esst, I have been able to incorporate or dissolve nearly 20 per cent. of dest, with it (nr 100 minims nearly in 3j.). By the addition afterwards erains of pulv. tragac. ver. I was able to mix 3j. vaseline with 3j. water, ich formed a homogeneous product of custard-like consistency.

Yours truly,

ctober 4.

GEO, SPENCER.

Sullivan's Cement.

The Chemist and Druggist-

18,-I observe in this month's issue in answer to some correspondent urding Sullivan's cement. As you are on the wrong track, I take the ity of writing to you.

bis is an amalgam, made up in small pellets, the metal and mercury lig mixed. A pellet is gently heated an old speon answers the purpole divery little heat suffices to soften it. It is then gently pressed to get to fexcess of mercury, and applied. It sets very quickly.

Yours very truly,

ptember 20.

JOHN ETTLES.

Cories of the Conference Address.

The Chemist and Druggist-

R-As one who has taken a great though latent interest in the proproof pharmacy during the past ten years, I most beartily concur with lessor Attfield's snggestion of appealing to "the mass of the commuu" by a distribution of the Conference Address. Indeed, I intend that app shall come into the hands of every magistrate, medical man, or men ware aspiring for Parliamentary honours in the forthcoming campaign, inding the coroner for this division.

ight I suggest that the Secretary of the Society should be instructed tequest all local secretaries to make this one effort, as, by acting collecty throughout the country, we shall be reaching at least that part of tommunity who hold, to a very great extent, our interests at stake.

egret that our Pharmacy Bill was not more closely associated with the lical Bill which is shortly to come before the House, for a partnership, if only a sleeping onc, would have been not only more beneficial to lical men and pharmacists, but to the community at large.

lgty, October 8. A. G. CHAMBERLAIN.

/116. J. T.—Our advertisement rection contains the information you like.

/116. Eosine.—A good treatise nn cral-tar products, occupying about 17 pages, appears in Spon's Cyclopædia. You could probably get the P or parts containing that section separately from the publishers, E. & F. &, Charing Cross. Perkin's Cantor Lectures on aniline and coal-tar are were published in the "Journal of the Society of Arts" in 1869. I journals can probably still be obtained from the Society, John Street, & phi.

24. Indelible Ink.—F. II. B.—We have more than once pn blished tubjoined formula for an indelible ink for marking linen, which we have can be used with a rubber stamp. Dissolve 12 grains of nigrosine, and not perfection e, and 12 grains of aluminium acetate in one ounce oater. Carefully cleanse the fabric from all starch and dressing, and to time for it to absorb the ink. The marks are not absolutely indelible a peated washing will remove them, but they are not affected by chlorof lime, which bleaches silver inks.—The Chemist and Druggist, 14, p. 464.

Antique Mortars.

To The Chemist and Druggist-

Sir.—The Apothecaries' Company formerly possessed a curious mortar. On the hody of the mortar were several figures, such as two griffins as supporters to a tree, and two animals (perhaps antelopes) supporters to another tree, two lions in the same character to a third tree, and two others as supporters to a castle triple towered. Round the rim was the following inscription:—"Veni Creator Spiritus, montes tuornm visita, imple superna gracia quae tu creasti pecta. Salve mea Christur. S. T. Wenni." The figure of this mortar is still preserved in the Gentleman's Magnaine for 1159. The mortar was cracked, and the masters condemned it to be melted down, in about the year 1800.

L. G. SHARPE.

Renovating Sponges.

To The Chemist and Druggist-

Sir,—I have tried your suggestion as to renovating the spon ges, and find the following plan completely successful:—Seak for ten minutes in a 2-per-cent. solution of permanganate of potash, then in a 2-per-cent. solution of oxalic acid with the addition of a little sulpburic acid for about half an hour, and finally treat with a 2-per-cent. solution of carbonate of potash for half an hour, wash, and dry. The solution of carbonate of potash produces the yellow colour I particularly wanted. Thinking my experience may be useful to you in case you have another "friend in need" of similar advice, I send this to you, thanking you for your suggestion.

I am, sir, yours truly,
H. CUMBER, JUN.

4 Fountain Street, Greinsey, October 9.

116/1. J. R. C.--The best available general information on flower farming and the distillation of essential oils will be found in Piesse's "Art of Perfumery," In German there is a good work by G. W. Askinson "Die Fabrikation der ätherischen Oele," published by Hartleben, of Vienna, at 3s. See also Mr. Wrenu's article in our February number, and Mr. Mason's in May.

116/.7. Nemo.—Vaseline.—We believe that no definite information on the bleaching of vaseline has been published. In our last number, page 463, we published a suggestive note from Mr. Leopold Field's lectures on illuminating agents. He says that fuller's earth is capable of rendering the most refractory substances white and transparent. This may prove useful for vaseline. If any readers have had experience we shall be glad to hear it.

 $18/115, \ \emph{J}, \ \emph{S}, -\text{Thc}$ apparatus you refer to did not seem to answer expectations.

32/115.—Apprentices and Masters.—X. Y. Z. puts a hypothetical case, as follows:—

"Suppose I have an apprentice bound for four years from August 18, 1883, and in October following I enter one of the hospitals with a view to become a medical practitioner, providing an efficient and suitable manager to supervise and conduct my business, &c., during the absence caused, hav do I stand in relation to my apprentice, his indentures, and his guardian, &c.?"

The case would depend on the wording of the indentures and on special circumstances. Clearly, if a parent had raid a special fee for the advantage of getting your individual training, and you abandon the duties you had undertaken, there would be a grievance for which the law would provide a remedy. But, in an ordinary case, if you supervised the training of an apprentice, and provided an efficient substitute in your absence, there would not be likely to he any legal difficulty.

41/115. Dens.—The question whether an unregistered person can sell laudanum by simply attaching a patent-medicine stamp to a bottle of it bas not been legally decided. The point is, does the stamp make it a patent medicine? If it does, any person can sell the article in such a form-but we do not think a Court would hold that laudanum or other poisonwas entitled to the exemption simply because of the stamp.

111/245. J. J.—Wood-stains.—Much information on this subject is given in "Workshop Receipts," part II., published by E. & F. N. Spon, and reviewed in our last issue.

115/25. R. I. E. wishes to meet with a good formula for phosphoras paste for rats, mice, and blackbeetles—one that will keep and has been proved satisfactory.

114/22. Sub Umbra Floresco asks for a formula for menthol cones. As yet we have seen none in any of the periodicals, but we understand that the basis is a hard ointment containing spermaceti, with a certain proportion of menthol.

110/59. J. J. G. writes that, thinking to preserve some glycerine and rose-water, he added salicylic acid, which immediately turned it quite red. He asks if the colour can be discharged by any simple means. We should be glad if any correspondent could throw light on the matter.

The Parcels Post.

To The Chemist and Druggist.

SIR,-As I believe the following particulars of the working of the parcels post may be of general interest to chemists, I take the liberty of addressing this to you for publication in THE CHEMIST AND DRUGGIST.

Probably, like myself, many retail chemists looked forward to the introduction of that much-vaunted system with anticipations of increased business with decreased expenses for carriage. They must have been grievously disappointed. I have on several occasions heen annoyed by delay. The following case will suffice to show there is reason for complaint. On September 19 I ordered by telegram a bottle of cresoline per parcels post from London, thinking it would be the quickest, and for the weight the cheapest, conveyance. I received the invoice on the 21st, showing the parcel had been premptly sent as ordered. I did not receive the parcel until the morning of September 24. The receiving-effice had dated the parcel September 20. For some classes of goods such a delay emight he of little consequence, but in other cases, such as the present instance-where the article was required for an iuvalid, to whom it was of the utmost importance to keep it constantly in use-you will see how untrustworthy such a system must be.

I will not trespass on your space to mention other faults of the system, though they are by no means few.

Yours truly,

The Victoria Pharmacy, Workington, September 24.

W. B.

113/36. G. C.—Custard-powder.—This correspondent has been accustomed to colour custard-powder with turmeric, but the last making had a very strong smell and taste. He wishes for some better colouring matter. We have never heard of the use of anything but turmeric, and know no harmless yellow colouring matter that will take its place. We suggest that some samples of turmeric may have less smell than others. We subjoin two formulæ for custard-powder which we believe will prove satisfactory :-

1. Sago-meal, 2 lbs.; powdered turmeric, ½ oz.; bitter-nlmond powder, cassin, and mace, of each, \(\frac{1}{2}\) oz.—Cooley.

2. Tragacanth, powdered, 2 oz.; potato-starch, 1 lb.; powdered turmeric, 150 grains; oil of bitter almonds, 30 minims; essence of lemons, 1 drachm. To be put up in ounce packets for one pint of new milk. One packet to be rubbed in a dish with two tablespoonfuls of milk; the rest of the milk boiled with 2 oz. of sugar, and, while boiling, poured gradually into the dish, stirring briskly. Bake as a custard.

110/38. Fireworks.-E. R. W. wishes to know the composition of the rocket stars, amber, &c., fired in shells or big rockets, and rising 100 to 200 yards; also of the stars generally fired from saucisson mines, burning with ordinary reddish or yellowich-red fire, but sparkling and burning with a crackling noise, rising only 30 feet to 40 feet. Can any of our readers supply bim ?

113/23. Opium asks for a formula for Aqueous Tincture of Opium It is supplied by the wholesale houses, and is said to contain the same proportion of opium as the B.P. tincture, but less spirit. Opium has tried to prepare it with less spirit, but fails to extract the colouring matter, and cannot get it so dark in colour as that sent out by the wholesale honses. He has tried to make it by boiling the opium in water, transferring the whole to a bottle, adding the spirit, macerating, &c. Can any correspondent supply the desired information?

112/60. Ink .- Xenophon makes ink with galls, iron, gum, and sugar in the cold, and finds that after a few weeks standing, a thick gelatinous film forms over it. He asks if it is hetter to remove the film, or draw from the tap without breaking it? Is it a defect, and what is the best preservative for ink? Is ink made by cold process inferior to that made with holling? Does not the boiling affect the starch in the galls? The best information on this subject will be found in an article on page 439 of our volume for 1880, in which many of these questions are anticipated. The object of boiling the galls with water is to convert a considerable part of the tannin This can he almost equally well effected by exposing the into gallic acid. cold infusion to the air for some time, according to the weather. The best preservative for ink is a part of sulphuric, or better, 1 part of oxalic acid to 100 parts of ink. Four parts of commercial sulphate of ind go, which is itself an improvement to ink, contain nearly enough acid to preserve it. The gum may be omitted. For full explanatious see the paper reerred to.

112/25, F. G. B.—The literature of tobacco is enormous. In 1879 a bulky catalogue was published of the books in the collection of one gentleman, a Mr. Bragge. We should like to know on what particular branch of the subject you want books before we can give you any definite information where a pamphlet on tobacco can be obtained.

112/38. Nadir.-Many hints on the fitting-up of a shop will be found in Parrisb's " Pharmacy." Any of the shopfitters advertising in our journal will give you all practical information. As regards a homeopathic counter, you can get what you want from any of the wholesale homeeopathic chemists.

How to Work the M.P.'s.

To The Chemist and Druggist-

SIR,-The plan suggested at the meeting of the Executive Commile of the British Pharmaceutical Conference for the distribution of the pablet containing Dr. Attfield's two addresses to every member of Parliar it is doubtless an excellent way of bringing about the long looked-for islation, and will be sure to meet with general approval; but, in addin, I would suggest that, as the Pharmaceutical Conference is going to be the expense of this circulation, the Pharmnceutical Society should cith send a copy of the pampblet to every chemist on the register, or at lt to every local secretary, with the request that, if possible, he would ve a personal interview with his representative member in Parliamer and thus obtain his opinion, and probably, in nine cases out of ten, his puise of support when a fresh Bill is brought forward. The weight thus bight to bear would be far greater than by simply sending the pamphl and leaving it quite to chance whether it is read or not. I believe the the Pharmaceutical Society will endeavour to bring forward a Bill whi will afford every atom of protection that Parliament and the public w permit, and feel sure that the above mode of procedure will belp to showhose who are so constantly complaining that the Pharmaceutical Society ally does exert itself more than they are apt to imagine. Blandford.

RICHARD H. GROS.

111/23. Carbolic Acid.—On page 463 of our last number we meion Mr. Flynn's suggestion to decolorise pink carbolic acid by adding chide of sodium to its watery solution. Messrs. Calvert & Co. writchat chloride of sodium will throw carbolic acid itself out of watery solons and will, in consequence, materially alter the strength of such solutis.

111/66. Nemo.-It is impossible to remove the smell of hydrosulphe of ammonia without destroying the compound. The smell is as mh a property of it as sweetness is of sugar.

111/60. Dialysed Iron.—Dialyser will find a valuable paper 1 Dr. Inglis Clark on the manufacture of dialysed iron on page 170 of our v me for 1880. The plan he recommends is as follows:-Mix 3 pints lightri perehlor. with 2 gallons of water, add just sufficient ammonia to impt a faint ammoniacal odour after stirring. Wash the precipitate welland squeeze as strongly as possible, then add to it in a capsule 10 oz. licerri fort. Warm slightly, with stirring, and when dissolved place in a di ser 15 inches square, consisting of two frames of wood, 4 inches deep, fing outside each other, and stretching the parchment tight. A numl of these dialysers are placed in a wooden frame supporting the edges ly, to the under side of which cork is fastened. Warm water is passed low the dialysers, and in a few hours a jelly results. In the course of por three days this redissolves, and sometimes in less than a week s 1 a quantity is perfectly tasteless, but usually a fortnight is required. tis advisable to use cooler water towards the end of the process. The ints to be attended to are these: Avoidance of excess of ammonia in pipitating the liquor; thorough washing and squeezing the precipite; complete solution before placing on the dialyser; care lest evapo ion from the dialyser dry up the contents.

It is probable that the liquor ferri dialysatus with a smell of chlor; or nitrons acid fumes was made by simply dissolving ferrie hydrate inblution of ferric cbloride without dialysis.

110/30. Chemical Barometer.—F. M. D.—In the formula give on page 464 of our last number, the quantities of saltpetre and sal amm ac should be 38 grains each, not drachms as it is printed. The other quitities are correct.

115/57. An Old Subscriber asks how to cleanse stone bottles which are heen used for petroleum. Can auy reader suggest a plan?

114/67. Subscriber. — Conf. Jalapæ Co. St. Bartholom 's Hospital. — Beasley's "Pocket Formulary" gives the formula as folls: Powdered jalap 3ij, cream of tartar 3iss, ginger 9j, treacle 3iiss, dose Bartholom 's

Sham Chemist.

SIR.—Confirmatory of the remarks in Dr. Attfie'd's address, rega urregistered persons whose shops resemble those of chemists and drug ts, a friend of mine engaged in correcting addresses for the new West m Directory, says that be met with two such cases, one in Victoria ck Road and one in Barking Road, Essex.

In both instances they requested bim to be sure and not publish the as

chemists and druggists, but call them dealers indrugs. The fact that chevasions of the Pharmacy Act exist requires no comment.

ROBERT OWEN FITT 200 Well Street, Hackney, E.

116/4. Jumbo.- Cheap Pomade.-The following may answer: 4 lbs. 3 oz. Lard ... White wax (true) .. Distilled water Oil of bergamot oz. ½ 0Z. 2 dr Oil of lemon Oil of cloves 1 oz. Palm oil

M. s. a. A form for hop bitters containing podophyllin is given on 30 312, of our last volume.

NCI

In 1 lb., 2 lb., 4 lb., 7 lb., 14 lb. and 28 lb. Boxes. 1/- per lb.

ICIAL QUOTATIONS TO LARGE BUYERS.

Please Note.—Every Package has our Label and Seal upon it.

AND EXPORT CHEMISTS.

MANUFACTURING WHOLESALE

(Prepared by the Daughter of the late John Bond).

No heating required.

By Official Appointment to the QUEEN and COURT OF HOLLAND, Certificate of Merit signed H.R.H. PRINCE OF WALES,

By Royal Letters Patent.

Neating

raired.

TE "INVICTA" SCARLET BLUE MARKING INK.

& roprietor, J. HICKISSON, Sonlaw of the late John Bond.



Facsimile of 6d. and 1s. Blue Wrapper.

WHOLESALE PRICES

BOND'S CRYSTAL PALACE MARKING INK.

6d. Blue Wrappers 30/-1/- " 6d. Pedestals ...

CATION TO WHOLESALE AND RETAIL VENDORS,—Costs and Damages awarded in actions tried December, 1875, and November, 1877, for selling and manufacturing Colourable Imitations. To secure the genuine article, please order of your Wholesale House "BOND'S (Daughter of the late John) CRYSTAL PALACE MARKING INK."

Examine Labels, in consequence of complaints. WORKS: 75 SOUTHGATE ROAD, LONDON.

RETURN INITATIONS.

Shippers and others please send for Illustrated Price List. Free Carriage on parcels of £5 and upwards.

BY ROYAL JORDER THE"INVICTA" SCARLET MARKING INK LETTERS PATENT UNCHANGEABLE IN ITS BEAUTIFUL COLOUR BY REPEATED WASHING AND BOILING

THE RICHEST NATURAL AERIENT WATER."

Baron Liebig in "Lanect,"

"Certain and painless, soft and mild." Prof. Von GARTNER, Stuttgart.

"OF GREAT USE IN HABITUAL CONSTIPATION."

Medical Times and Gazette,

Lunyadi Janos

Lunyadi Janos

Iunyadi Janos

As a Laxative and against Obs'inate Constipation. "Has remarkable success in all diseases for which aperient waters are used.'

Prof. Bamberger, University of Vienna. Against Hammrhoids and Portal and Hepatic Congestions. "Prompt, certain, and without inconvenience" Prof. Von Buhl, Munich

In Bilious Attacks and Sick Headaches. "Favours the secretion and excretion of bile, and removes congestive and inflammatory conditions of Prof Alois Martin, University of Munich.

During Pregnancy; for Nursery Use; and in many Female Disorders.
"I prefer this to any and every other."

Dr. Marion Sims, N.Y.

Against Evil Consequ nees of Indiscretion in Diet. "Has invariably od and prompt success." Prot. Virchow, Berlin.
"In the Uric Acid Diathesis and Prevention of Urinary Calcu'i, much good and prompt success.'

more energetic than Friedrichshall, Carlsbad, or Marienbad; can be given in much smaller doses, and is less unpleasant to the taste.'

New York Medical Journa', 1880, Dr. F. Weir.

e name

APOLLINARIS COMPANY,

LIMITED, on every Label secures

Of all Chemists, 1s. 6d. and 2s. per Bottle. Ordinary Dose, a Wineglassful.

is most efficacious taken in the morning fasting, warmed to a temperature not below 60°, or when an equal quantity of hot water is added to it.











TRADE MARK

CORBYN, STACEY & CO.

Wholesale & Export DRUGGISTS,
MANUFACTURING, PHARMACEUTICA,
AND ANALYTICAL
CHEMISTS.

PRICES CURRENT FORWARDED ON APPLICATION.

Special Quotations for Large Quantities or Original Packaes.

Laboratories, Drug Mills, Warehouses, and Head Office: 300 High Holborn.

Branches: 86 New Bond Street; 7 Poultry; 153 Leadenhall Street.

NEW ACCOUNTS should be accompanied with Draft or London Refere e.

300 HIGH HOLBORN, LONDON

uinine, Pharmaceutical & other Chemicals

London, 1851.

Cr. 15, 1883.



Established



owards & Soi



1798



Paris, 1855.

Tills, Stratford,

WOOLLEY, SONS &

DRUG MILLERS AND IANUFACTURING PHARMACEUTICAL CHEMISTS.

The "Extra Pale" Cod Liver Oil.
Unchanged at 32° F.

Pure White Beeswax, in bars. Free from rancidity. M.P. 150° F.

Pure Yellow Beeswax, in bars. M.P. 149° F.

> Pure Crushed Linseed. Ground from Sercened Seed.

Dalmatian Insect Powder, rom Unopened Flowers, free from added colouring matter.

Intments Levigated by Steam Power.

Spirit of Nitrous Ether, Guaranteed of official strength.

Aromatic Spirit of Ammonia,
Distilled from Volcanic Ammonia.

Assayed Opium, Cinchona, & Scammony Their Powders and Preparations.

Soluble Essences of Ginger, Lemon, &c., For flavouring Aërated Waters.

Tasteless Coated Pills. Soluble in cold water.

Medicated Suppositories, Bougies, &c.

CHEMICAL AND PHARMACEUTICAL APPARATUS, CHEMICAL PRODUCTS. DRUGS AND CHEMICALS GROUND FOR THE TRADE.

rehouse & Offices-2 & 4 Swan Court, Market Street; Laboratory & Drug Mills-Knowsley St., Cheetham,

MANCHESTER.

Prices Current and Catalogues on demand.

Special quotations forwarded to large buyers.

PRICE LIST OF

FLUID EXTRACTS (EVANS

Our exhibit of FLUID Extracts at the recent Exhibition of the British Medical Association, held in Liverpool, having cracte considerable attention, we now manufacture and keep the following in stock, being those at present in domand.

considerable attention, we now manufacture and keep the journing in stock, veing those at present in domaina.

To ensure the full therapeutic efficacy of these Extracts, special care is exercised in the selection of the menstruum most sted teach individual case, so that each preparation fully represents the whole medicinal properties of the drug from which it is prepared.

Many of these Extracts are official in the United States Pharmacopaia of 1882, in which case they have been prepared strict accordance with that authority, but in all cases the strength of the finished preparation has been made to represent weight for nature so that each minim represents one grain of the drug. We have, however, stated the strength after each article, mentioning of the plant from which it is prepared.

	1	V. QT.		-	-
Extractum Arnicæ Fluidum per 15.		12.6lb.	Extractum Guaranæ Fluidumper lb.	/	QT
One fluid ounce is equivalent to one ounce of the Root.	14/-	12,010.	One fluid ounce is equivalent to one ounce of Guarana.	10,-	9/
Extractum Belladonnæ Fluidumper 16.	. 01		Extractum Hamamelis Fluidum (Witch Hazel) lb.	01	
One fluid ounce is equivalent to one ounce of the Root.	. 0,-	7 - 35	One fluid ounce is equivalent to one ounce of the Bark.	8,-	7:
			Extraction Hometoneli Eluidare		
Extractum Boldo Fluidumper 1b.	10 -	14.6	Extractum Hæmatoxyli Fluidumper lb.	3/6	3/
One fluid ounce is equivalent to one ounce of the Leaves.			One fluid ounce is equivalent to one ounce of Hema- toxylum.		
Extractum Buchu Fluidumper 1b.	7	6,	Futus otum Undanatia Fluidam (5.1)		
One shill ounce is equivalent to one onne of the Leaves.			Extractum Hydrastis Fluidum (Golden Seal) per lb.	10,-	9
Extractun Cascara Sagrada Fluidumper 1b	8 -	7	One fluid ounce is equivalent to one ounce of the Root.		
(Rbamnus Pnrshiana)			Extractum Hyoscyami Fluidumper lb.	16/-	5/
One fluid ounce is equivalent to one ounce of the Bark.			One finial ounce is equivalent to one ounce of the Leaves.		-
Extractum Castaueæ Fluidum (Chestnut)per lb	9'-	S'- ,.	Extractum Ipecacuanhæ Fluidumper lb	16 -	5.
One fluid ounce is equivalent to one ounce of the Leaves.			One fluid ounce is equivalent to one ounce of the Root.		, ,
Extractum Chimaphilæ Fluidum (Pipsissewa) per 11.	9 -	8	Extractum Jaborandi Fluidumper lb.	7!-	61.
One fluid ounce is equivalent to one ounce of the Leaves.			One fluid ounce is equivalent to one ounce of the Leaves.	4.	
Extractum Cimicifugæ Fluidum (Black Cohosh) 1b.	9.'-	S/	Extractum Juuglaudis Fluidum (Butternut) per lb.	9/-	31.
One fluid ounce is equivalent to one ounce of the Root.			One fluid ounce is equivalent to one ounce of the ROOT	21	-1
Extractum Cinchonæ Flav. Fluidumper 16.	10'6	96	Bark.		
One fluid ounce is equivalent to one ounce of the Bark.		9, 5 19	Extractum Krameriæ Fluidumper lb	7/-	5%
Extractum Ciuchonæ Rub. Fluidumper 1b.	10.6	9'6	One fluid ounce is equivalent to one ounce of the Root.	41	1
One fluid ounce is equivalent to one ounce of the Bark.	10,0	9,0 ,,	Extractum Leptandræ Fluidum (Culver's Root) 1b.	9'-	31.
Extractum Coca Fluidum (Coca Erythoxylon) Per lb	0 -	S	One fluid ounce is equivalent to one ounce of the Root.	-	11
One fluid ounce is equivalent to one onnce of the Leaves.	9, =	0	Extractum Lupuli Fluidumper 1b.	TT'-	51
Extractum Couvalleriæ Majalis Fluidum per 1b.	Y 4 '	12.6	One fluid ounce is equivalent to one ounce of Hops.		11
(Lily of the Valley)	14 -	12,6	Extractum Marrubii Fluidum Per lo	3'-	1.4
One fluid ounce is equivalent to one ounce of the whole			One fluid ounce is equivalent to one ounce of the Herb.	3.	1
plant.			Extractum Matico Fluidumper lb	10	11.
Extractum Coto Fluidumper 1b.	12 -	II	One fluid ounce is equivalent to one ounce of the Leaves.	10	
One fluid ounce is equivalent to one ounce of the Bark.			Extractum Quassiæ Fluidumper lb.	3'6	31
Extractum Cubebæ Fluidumper 1b.	10'-	9	One fluid ounce is equivalent to one ounce of Onassia.),
One fluid ounce is equivalent to one ounce of Cubebs.			Extractum Quebracho Bianco Fluidumper lb.	11'-	. "
Extractum Cuspariæ Fluidumper 1b	8/-	7'	(Aspidospermo Quebracho)	-4	í
One fluid ounce is equivalent to one ounce of the Bark.			One fluid ounce is equivalent to one ounce of the Bark.		
Extractum Cypripedii Fluidum (Ladies' Slipper) 1b.	9	S'	Extractum Rhamni Fraugulæ Fluidumper 1t.	2 S	1
One fluid ounce is equivalent to one ounce of the Root.			(Black Alder)		1
Extractum Damiauæ Fluidumper lb.	14 -	126	One fluid ounce is equivalent to one ounce of the Bark.		4 .
(Turnera Aphrodisiaca)			Extractum Rhei Fluidumper le.	9'-	1
One fluid ounce is equivalent to one ounce of the Leaves.			One fluid ounce is equivalent to one ounce of the Root.		I.
Extractum Digitalis Fluidumper lb.	8 -	7	Extractum Senegæ Fluidumper lb.	66	1
One fluid ounce is equivalent to one onnie of the Leaves.			One fluid ounce is equivalent to one ounce of the Root.		1.
Extractum Dulcamaræ Fluidumper lb.		5'- ;:	Extractum Seuuæ Fluidum per lb	6 -	1
One fluid ounce is equivalent to one ounce of Dulcamara.	11		One fluid ounce is equivalent to one ounce of the Leaves.		1.
Extractum Eucalypti Fluidumper lb	S/-	7 **	Extractum Spigeliæ Fluidumper lb	9 -	1
One fluid ounce is equivalent to one ounce of the Leaves.	`		One fluid ounce is equivalent to one ounce of the Root.		1
Extractum Euonymi Fluidum (Wahoo Bark) per lb.	9, -	8'	Extractum Stillingiæ Sylvaticæ Fluidum per 1b.	9,-	1
One fluid ounce is equivalent to one ounce of the Bark.			(Queen's Root)		
Extractum Fuci Vesiculosi Fluidumper 16.	3.6	3	One fluid ounce is equivalent to one ounce of the Root.		
(Bladder Wrack)	0,	0	Extractum Taraxaci Fluidumper lb	3 -	1
One fluid ounce is equivalent to one ounce of Wrack.			One fluid ounce is equivalent to one ounce of the Root.		1
Extractum Gelsemii Fluidum (Yellow Jasmine)	14'-	126	Extractum Valerianæ Fluidumper lb	6/-	(
One fluid ounce is equivalent to one ounce of the Root.			One fluid ounce is equivalent to one ounce of the Root.	5.	
Extractum Gossypii Fluidumper lb.	14 -	125	Extractum Viburni Peunifol Fluidumper lb	-8 -	-
(Cotton-root Bark)			(Black Haw)		1
One fluid ounce is equivalent to one ounce of the Bark,	0.		One fluid ounce is equivalent to one ounce of the Bark.	-	1
Extractum Grindeliæ Robustæ Fluidumper 16.	8,-	7,- ,-	Extractum Viucæ Majoris Fluidumper lb	6,-	1
(Wild Sundower) One fluid ounce is equivalent to one ounce of the Herb.			(Greater Periwinkle) One fluid ounce is equivalent to one ounce of the Herb.		-
one produce to experience to one ounce of the Hero.			con june ounce is equite where to one ounce of the Hero.		

SPECIAL QUOTATIONS TO LARGE BUYERS.
SOLE MANUFACTURERS:

EVANS, LESCHER & WEBB,



EVANS, SONS & CO.

MANCHESTER OFFICE AND SHOWROOM—1 and 2 Exchange Buildings, Cromford Court, Market Street BIRMINGHAM OFFICE AND SHOWROOM—Barwick Street, off Livery Street.

H. SUGDEN EVANS & CO., Montreal, Canada; and Boston, U.S.A

RICHARDS'

MERICAN MEDICANE

DEPOT.

ALL MEDICINES OF REPUTE IN AMERICA

OBTAINED AS REQUIRED.

PECIAL WHOLESALE AGENT FOR THE FOLLOWING PROPRIETORS:

THE PHARMACEUTICAL ASSOCIATION,

New York.

HALL & RUCKEL, New York.

P. H. DRAKE & CO., New York.

BRENT GOOD & CO., New York.

HIMROD MANUFACTURING CO., New York.

THE HOLMAN CO., New York.

CLARENCE M. ROOF, New York.

B. T. HOOGLAND, New York.

PERRY DAVIS & SON, Providence, R.L.

L. EECKELAERS, Brussels.

CH. DELACRE, Brussels.

JOHN MORGAN RICHARDS,

2 & 93 GREAT RUSSELL STREET, LONDON.

CABLE ADDRESS-"ADRIATIC LONDON."

EXTRACTUM PANCREATIS

A PURE, DRY PRODUCT FROM THE PANCREATIC GLAND.
In Powder-Price 5s. per Ounce.

Rich in Diastase; and in Trypsin, the ferment of the Pancreas which converts albu en into PEPTONE.

Five grains of Extractum Pancreatis added to a pint of milk at 100° F. will convert all the into peptone in one hour; the milk cannot then be curded even by strong nitric acid, or by rennet.

The only apparent change is the development of a slightly bitter taste.

In many cases it is sufficient to only partially digest the milk—for 20 to 30 minutes or so—then ttle or no bitter taste is developed.

When Extraction Panerestis is added to total milk—without sode—it first produces a soft flocient

When Extractnin Pancreatis is added to tepid milk-without soda-it first produces a soft, floc lent

curd, which it then gradually digests.

A few grains administered to infants in a little sweetened tepid milk often relieves the veous symptoms of indigestion caused by the formation of the hard curd of casein; in other cases is necessary to pertonise the milk before feeding.

Five grains of Extractum Pancreatis added to a pint of thick, well-boiled starch grue will dissolve the starch and render it liquid, like water, in a few minutes, at a temperature which can be rue

by the mouth.

Five grains of this Extract of Pancreas will produce more effect upon starch or milk an ONE OUNCE of saccharated Pancreatine or mixture of Pancreatine, under the same condition.

Peptonised and partially poptonised milk has been extensively used with most excellent results ithe milk-indigestion of bottle-fed infants, as a food for the sick in Typhoid Fever, Ga-tric Catarrh. &c., a is given for nourishment after severe operations by eminent gynecologists and surgeons in New York.

We make a Speciality of Preparations of the PURE DIGESTIVE FERMENTS bot of the STOMACH and the PANCREAS.

PEPSINE IN SCALES

Price 5s. per Ounce.

Our Pepsine in Scales is the first pepsine ever produced guaranteed free from Hydrochloric Acid, alt, Starch, Milk-sugar, Artificial Peptone, or any added substance. Altough the digestive strength as classed by us appeared phenomenal, this has been verified by actual test by some of the best pharmacists and physicians in the country, and cannot be refuted.

The introduction of our Pepsine in Scales cansed a revolution in the manufacture and use of pepne. Physicians will no longer accept as pepsine milk-sugar containing a small per cent. or trace of the dige ve ferment, nor will pharmacists pay absurd prices for these triturations of pepsine, which they can be provided by the person of pepsine.

themselves prepare.

One grain digests six hundred grains of albumen in four hours, in the standard acid albumixture of the U.S. Pharmacopæia. The most active and permanent preparation of pepsine in the wolf.

ORIGINATORS AND MAKERS:

FAIRCHILD BROS. & FOSTEI

Manufacturing Chemists, Druggists, and Importers,

60 FULTON ST., NEW YORK, U.S.

PAMPHLET SENT TO ANY ADDRESS UPON APPLICATION.

PARKE, DAVIS &

IANUFACTURING CHEMISTS.

DETROIT, MICH., AND NEW YORK CITY, U.S.A.

Wegto call attention to the following preparations which we have lately introduced in the United Kingdom.

FLUID EXTRACTS:-

BAROO BRIER ROOT (Smilax Sarsaparilla). BE SFOOT (Polymnia Uvedalia). BE ERIS AQUIFOLIUM (Oregon Grape Root). BLK HAW (Viburnum Prunifolium). BUJOCK (Arctium Lappa, Lappa Minor). CAARA AMARGA (Picramnia). CAARA SAGRADA (Rhamnus Purshiana). CON EN (Myrtus Chekan).

ON LEAVES (Erythroxylon Coea).

ON ALLARIA MAJALIS, Herb (Lily of the Valley). Flowers Root 00 SILK (Stigmata Maidis).

CO BARK (Para-Coto). DA ANA (Turnera Aphrodisiaca). EUILYPTUS GLOBULUS (Fever-tree).

60 EN SEAL, U. S. P. (Hydrastis Canadensis). 60 EN SEAL, AQUEOUS (for local application). 62 EN SEAL, AQUEOUS (for local application).

GRINDELIA SQUARROSA. JABORANDI (Pilocarpus Pennatifolius). JAMAICA DOGWOOD (Piscidia Erythrina). KAVA KAVA (Piper Methysticum).

MANACA (Franciscea Unitfora). PRICKLY ASH BARK (Xanthoxylum Fraxineum seu Caroli-

nianum) QUEBRACHO (Aspidosperma Quebracho).

SHILAX (Aspidosperma Quebracho).

RHUS AROMATICA.

SIERRA SALVIA (Artemisia Frigida).

SMILAX COMPOUND, McDade's, composed of Bamboo Brier Root, Burdock, Poke Root, Stillingia, and Prickly STILLINGIA SYLVATICA (Queen's Root, Queen's Delight).

USTILAGO MAIDIS (Corn Ergot). WAHOO (Euonymus Atropurpureus). WITCH HAZEL (Hamamelis Virginica). YERBA REUMA (Frankenia Grandifolia). YERBA SANTA (Eriodyction Californicum). Etc., etc.

<mark>ONCENTRATIONS, SPECIALITIES, SUGAR AND GELATINE COATED PILLS.</mark>

CASCARA CORDIAL,

Elixir of the Bark of Rhamnus Purshiana, a recognised remedy of great value in the treatment of Chronic Constipation.

lessrs. Parke, Davis & Co., Detroit, Mich., will be happy to furnish the most complete informain respecting any of their preparations to any Chemist applying to them direct. Orders excited from their Wholesale Depôt:

BIRGOYNE, BURBIDGES, CYRIAX & FARRIES, 16 COLEMAN STREET, LONDON, E.C.

PARKE, DAVIS & CO.'S

Slect Pressed Herbs, Barks, Flowers, Roots, &c.

Ierbs, Leaves, and Flowers are put up in one ounce packages.

coots and Barks only in one pound packages.

Excunce package bears the common and Latin names, with synonyms in English, German, and French, and the properties and dose. With poisons the antidote is given.

We invite attention to the following points of superiority in this line of our manufactures:

Evy package is full weight.

Attetive style and convenient shape.

Thorices do not exceed those of inferior goods.

Entire freedom from admixture and removal of undesirable portions of the plant.

Th quality is absolutely the best which is Our direct connections enable us to have especial care bestowed upon the collection and preservation of drugs intended for our use.

P., D. & Co.'s Pressed Herbs, Roots, &c., may be obtained from

*ssrs. POTTER & CLARKE, 6 & 7 Duke Street, Brushfield Street, London, E.

HIROD'S GURE

FOR

ASTHIMA,

HAY FEVER, GROUP, CATARRH, DIPHTHERIA & COLIS

The attention of sufferers from Spasmodic Asthma is directed to the following Extracts from some of the Press Memoirs of the late lamented

EARL OF BEACONSFIELD.

"An account states that the early hours of the morning had always been the most trying to the patient, and after one o'clock the difficulty of relieving the throat and chest became so great that recourse was had to an expedient which Lord Beaconsield had before declared had given him the greatest relief, and a small quantity of Himrod's Powder was burned in a saucer in such a position that the fumes were inhaled by the sufferer."—The "Daily News," London, Wednesday, April 20th, 1881.

"The east winds, which have again set in, no doubt hastened the end. It seems that for the asthmathic affection his lordship derived the greatest comfort from Himrod's Powder, which was recommended to him by Sir Philip Rose. He last inhaled it at one o'clock this morning, and seemed to derive comfort from it. Nothing could be more dignified than the manner in which the noble patient bore his sufferings, and nothing more composed and tranquil than his end."—The "Globe," London, Tuesday, April 19th, 1881.

It is important to observe that Himrod's Cure was employed nde the highest medical sanction, for the "Globe" over quoted) further states—

"... Indeed, latterly, since his illness assumed a critic turn he had submitted himself to the guidance of his physicis and friends, eating when he was more or less inclined to do, an obeying the medical directions. From the very first he less wonderfully patient and in good spirits, although consus he could never recover, and"

"From the very first he has been wonderfully patient, ad ingood spirits, although conscious he could never recover chilst awaiting his death with marked fortitude. It is understood east the only real relief he had during the paroxysms of his ills wa from an American remedy (Himrod's Powder), which we freely administered during his illness, being the last medicing him."—The "Echo," Tuesa y, April 19th, 1881.

CAN BE OBTAINED FROM THE FOLLOWING FIRMS

LONDON ... F. NEWBERY & SON

, ... BARCLAY & SONS.

, ... J. M. RICHARDS.

" ... T. LYNCH & CO.

LIVERPOOL ... J. HALLAWELL & CO.

BELFAST ... CLARK & McMULLEN.

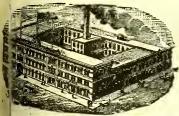
NELSON, NEW ZEALAND ... R. HADFIELD.

SYDNEY, NEW SOUTH WALES ... WASHINGTON H. SO L.

OR FROM

HIMROD MANUFACTURING CO., PROPRIET RS.

NEW YORK, U.S.A.



FREDERICK STEARNS & CO., Manufacturing Pharmacists,

DETROIT, MICHIGAN, U.S.A.

Exporters of Medicinal Products.

Established 28 Years.

POPULAR NON-SECRET

ler the title of Popular Non-Secret Medicines, we introduced, in 1876, a line of articles avowedly made to supplant patented and secret medicines. The comprises staple articles like Sarsaparilla. Condition Powders, Cathartic Pills, Liniments, Cough Syrups. Worm Medicines, &c., to simulate the form is sizes of like popular patented goods; to print the working formula on each package; to make them in large quantities, at a saving in cost of mat I and labour; to sell them to the RETAIL trade of the United States; to print cach buver's name and address on labels and wrappers in place of our o sell them on a close margin of profit as manufacturers; to use good glass, velvet corks, excellent printing, elegant engraved and unted was rs; to adapt the styles, sizes, and prices to meet popular wants; to firmish the retail druggist (who has few appliances himself) a means to drive put nedicines out of his sales; to enable him to make the profits himself, which otherwise go into the pockets of patent-medicine manufacturers; to see longer than the profits himself. apl quack and a cret postrums by medicines of known composition and value.

**Lated Priced Catalogue and Order Blanks furnished on application of any retail druggist iu good rating.

th Customer is protected from competition in his immediate neighbourhood.



This cut represents the 12-oz. size of

Compound Syrup of Sarsaparilla with Iodide of Potassium.

The medicines combined in this preparation have long been recognised by the medical profession as the most certain of alteratives and depuratives. It is useful in chronic affections of the skin, scrofula, syphilis, and all diseases arising from impurities of the blood. It contains Sarsaparilla, Senna, Licorice, Iodide of Potassium, Sassafras, Anise and Oil of Wintergreen. Formula printed on label (or not, as buyers wish). Price from one-half to two-thirds less than Patented Nostrums. The general make-up is clegant and far surpasses any hitherto put before the public.

This cut represents a turned-wood box, containing 25 Sugar (or gelatine) Coated

Cathartic Pills (formula, U.S. half to two-thirds less than those or Patent or Queck Pills. Any cormula, any Title, and any had in this form. Powders.

(formula, U.S. | We put up but one quality, and that the Ph.); engraved our own Tin and Slide Paper Boxes. Our BLUE papers are died in the rag, and will bustomers address (not ours); each one quarter, one half, or one group of boxes packed in Decorated Canister to the property of the property of the seidlitz mixture and acid in putting up Seidlitz mixture and acid in putting up Seidlitz. We put up but one quality, and that the

seidlitz mixture and acid in putting up Seidlitz Price of the goods from one-laftotwo-thirds less thau those those put up with measuring cups, and report Queck Pills. Any the result. Onrs are exactly correct; made wormula, any by any other way they cannot be. These are Title, and any to be had in Boxes of 12, 10, 8, and 6 Powders; Address may be also in Decorated Foil Envelopes of 1, 2, or 3

This cut shows the popular non-secret

Syrup of Tar and Wild Cherry.

For recent or chronic Coughs and Colds, Bronchitis, Hourseness, Loss of Voice, Irritability of the Larynx and Fauces, and other Inflamed Conditions of the Lurgs and Air Passages.

PROPERTIES.—It is agreeable in taste and appearance, and Tar is diuretic and promotes secretion in the bronchial and laryngeal passages; Wild Cherry is an elegant and agreeable tonic and sedative; Squill, one of the best of expectorants; Ipecac is diaphoretic and expectorant; Opium, sedative.

STYLE AND SIZE .- Put up in three sizes, to retail for One, Two, and Four Shillings; label and buyer's address on bottle; cork left long; handsome engraved wrapper printed on heavy salmon - tinted enamelled paper; a two-page circular enclosed.



Genuine Seidlitz Powders.



Single Powders in Decorated Foil, Boxes of 50 or 100 only.

publish monthly an 8 page illustrated paper, "The New Idea." Send for it. Contains articles of interest to every retail druggist—the organ 10038—and is devoted to Ne v Remedies, Ne v Preparations, and Novelties in Pharmacy.

KERTISING MEANS.—We furn'sh Counter Circulars, Almanacs, Memorandum Books, Cook Books, Canary Bird Books (new), "Our Dogs" (new) to other desirable means for counter advertising. These are furnished at cost to customers of our Non-Secret Remedies, AND ADVERTISE THE ECYI EXCLUSIVELY.

W CATALOGUE, No. 80, Issued April 1880, contains 72 pages, closely printed, of our manufactures (exclusive of the popular Non-Secret Preparations Fluid Extracts, Sugar-Coated Pills, Elixirs, Powdered Drugs, Effervescing Granules, &c., &c. A book of reference. To Customers tree.

W CATALOGUE, No. 82.—Illustrated Descriptive Price List of the popular Non-Secret Medicines, Toilet and Domestic Articles. It contains

W CATALOGUE, No. 82.—Hustrated Descriptor Free On application.

Printed Card or Address should be sent with every Order. Send for Order Blanks.

FREDERICK STEARNS & CO., Manufacturing Pharmacists, DETROIT, MICH.

Our Licorice is made in the most careful and scientific manner from sound Italian and Spanish handsome in appearance, of finest flavour, beautiful fracture, and entirely free from grtine. The sizes are 4, 6, 8, 12, 14, and 16 sticks to the lb. (all sizes same price per lb.), put up in 5-lb. wooden boxe active weight guaranteed. Samples and Prices upon application. Correspondence with Jobella Houses Samples.

We have received the following Awards:
Franklin Institute, Philadelphia, Exhibition of 1874, "for purity"; Centennial Exhibition, Philadelphia, 1/6, " purity and general excellence of manufacture"; Paris Exposition, 1878, "for general excellence,"

RITTENHOUSE

MANUFACTURERS OF LICORICE

218 & 220 NORTH 22nd STREET, PHILADELPHIA, U.S.A.



H. PLANTEN & SON.

WILLIAM STREET, NEW YORK.

SOFT AND HARD. (9 SIZES.) ALL KINDS FILLED.

(8 Sizes) For taking medicine free of taste, smell, EMPTY (8 Sizes) injury to teeth, mouth, or throat.

RECTAL, 3 Sizes. VAGINAL, 4 Sizes. HORSE, 5 Sizes. DOG WORM.

CAPSULES FOR MECHANICAL PURPOSES.

Special Recipes Capsuled.

New kinds constantly added.

C Sold by all Druggists.

SAMPLES FREE.

FOUNDED BY J. MILHAU, 1813.

Wholesale and Dispensing

Importer and Exporter of Drus, Medicines, and Specialties,

183 Broadway, New Yek

Agencies and Correspondence solicite

BAKER'S **EMULSION** 1830 THEFT

POTENT and PALATABLE REMEDY for Consumption and all wasting diseases is offered

RAKER'S EMULSION

of finest Norwegian Cod Liver Oil, combined in an elegant form with Hypophosphites of Lime and Soda.

No preparation has ever met such a universal recognition by the



Medical fraternity, and its u is b coming constantly more extisive

181

The superiority of

RAKER'S EMULION

is acknowledged wherever lower and medical men would do ell avail themselves of the oppounit to test its merits, which can dor by procuring a bottle fre London Agents:

BARCLAY SONS, S 95 Farringdon

who are also prepared to furnish samples to Physicians free on application.

CORRESPONDENCE SOLICITED.

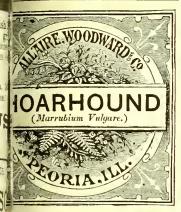
JOHN C. BAKER & CO., Philadelphia, U.S.

BARCLAY & SONS are also Agents in Great Britain for

BARLETT'S PILE SUPPOSITORIES

an astringent and balsam combined in most convenient form for application directly to the seat of the disease, affording most immediate relief, and performing the most astonishing cures. Boxes containing 14 Suppositories sent by mail on receipt. JNO. C. BAKER & CO., Proprietors, Philadel is. to Chemists or Physicians, 3/6.

Marrube Blanc. Misser Andorn. White Hoarhound, Prassium. COMMON NAMES.



PROPERTIES.

timulant, tonic, expectorant, and diur. Useful in colds, asthma, and all pniary affections. Infusion, 1 oz. in a pint tot water. Dose, a wineglassful.

ALLAIRE, WOODWARD & CO.

PEORIA, ILLINOIS, U.S.A.,

Desire to call the attention of Chemists to their line of

SUPERIOR

Choice Pressed Herbs.

Style of Package is shown in the accompanying Cuts.

Herbe aux Chats Cataire. .agnifff -nagtaff

Catnip, Catmint, Catwort, and Balmfield.

COMMON NAMES.



PROPERTIES.

Tonic, diaphoretic, and carminative. Useful in flatulence, colic in children, and as an emmenagogue in amenorrhœa and dysmenorrhœa. Infusion, 1 oz. in a pint of hot water. Dose, a wineglassful.

IMPORTANT NOTICE.

ry little attention is generally paid by druggists to this class of goods, so that frequently (in fact it has become the rule) pressers never or seldom at ir names on the packages, and, as a result, a large proportion of these goods in the market are short weight, old or inferior stock, and the name, or otherwise objectionable.

You wish to avoid all these serious objections, and at the same time secure a much handsomer package, having ou it all the common argar names, also the German and French names, the medicinal properties, formulas for the infusion and dose of the same inferior goods are substituted, we shall be pleased to receive your orders direct.

In the same inferior goods are substituted, we shall be pleased to receive your orders direct.

In the supply superior goods at ordinary prices.

The position as large consumers of this class of goods in the manufacture of Fluid and Solid Extracts and Super-coated Pills enables us to secure the

Trossupply superior goods at ordinary prices.

Trossition as large consumers of this class of goods in the manufacture of Fluid and Solid Extracts and Sugar-coated Pills enables us to secure the stalts, gathered expressly for us, at the very lowest possible price, so that to secure better goods you do not have to pay more money, but simply the four name is on every package.

Accept no other coarses.

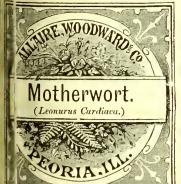
Our name is on every package. Accept no other as ours.

JISONS are put up in YELLOW PAPER, and in this class are ad all goods which, though not strictly poisons, should be dispensed withution, such as Tansy, Savin, Pennyroyal, &c. Roots and harks combinder this class have a cautionary label of yellow paper pasted on the itend. All other ounce packages are put in fine hlue paper. The sign of these styles by us, we trust, will reduce very materially the data for mistake by dispension. dan for mistakes in dispensing.

CAUTION.—During the past year nearly every presser of botanic goods in this country has adopted our style of putting them up, under the supposition that it is the wrapper which sells the goods. We are convinced, however, that it is the superior quality of the goods furnished which has given us the largest trade by far now done by any one house, and we trust that huyers will not be deceived by these external

Emmenagogue, nervine, antispasm. Useiul, in hysteria, ameuoribus, &c. fusion, I oz. iu a pint of hot water, I, a wiueglassful,

PROPERTIES.



Fluid & Solid

ALLAIRE.

Extracts. GELATINE AND SUGAR-COATED PILLS,

Pure Ground, Powdered, & Pressed Botanic Goods,

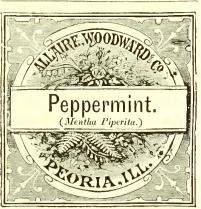
PEORIA, ILLINOIS, U.S.A.

These Goods may be obtained from

BASTIN, McGREGOR & Co., Manchester, England. A. J. Watt & Co., Sydney, N.S.W., Australia. W. H. H. Lane, Melbourne, Victoria, Australia. HEMMONS, LAWS & Co., Melhourne. A. Cole, Sydney, N.S.W. SIMS & PARKES, Sydney, N.S.W.

glassful repeated. to check usues. Infusion, I oz. in a pint of hot water. Do not boil. Dose, a wine-Stimulant, antispasmodic, carminative, and stomachic. Used in colic, hysteria, and

PROPERTIES.



COMMON NAMES.

Peppermint. Pfeffermunge. Menthe poivrée.

COMMON NAMES. Motherwort, Cardiaca.

Berggesgannkraut. Agripaume.

 \mathbf{F}

JENSEN'S CRYSTAL PEPS

In Artificial Crystals. Perfectly Soluble in Water without Acid.

THIS PEPSIN, now so popular with the profession, has given an impetus to the consumption of this drug. Phician of the highest standing, who before the introduction of this active Pepsin, with good reason, entirely abandoned he n of Pepsin, are now the most eager in prescribing JENSEN'S CRYSTAL PEPSIN, whenever it is indicated.

Three grains of this PEPSIN, which, according to its authoritatively tested strengt wi dissolve the hard-boiled white of six eggs, equal to the pure food of a hearty meal, ric 8s. per ounce.

EDS. MED. & SURG. REPORTER :-

I have this day tested a specimen of Dr. Jensen's so-called "Crystal Pepsin," with the following results, who m be of interest to your readers:

Experiment 1.—One quarter of a grain of Jensen's Pepsin dissolved in f. 3 iss. of water mixed with f. 3 ij. of water containing 9 drops of hydrochloric acid, and kept at a heat varying from 100° to 110° F., dissolved 125 grains of hard-boiled white of egg in two hours.

Experiment 2 was an exact copy of the first, except that solution was effected in two and a quarter hours.

Experiment 3.—One-quarter of a grain of the same Pepsin, under like conditions, dissolved 150 grains, or 600 times its weight, of coagulated albumen, in about three hours—this amount of albumen being rather more than half that usually found in an egg of average size.

Experiment 4.—One-quarter of a grain of the Pep similarly tested with 200 grains of boiled white f et left a small residue (estimated to weigh 20 or 25 gins) the end of three and a half hours, when the experient w interrupted. It was therefore probably capable une the circumstances of dissolving at least 700 times of weight of freshly-coagulated albumen.

The solvent power of this Pepsin is thus shown the Inivestigations of mine to be not less than twelve mes great as that of the "Pepsinum Saccharatum" (U.S. harr 1880), and hence this method of preparing pepsin unquitic ably places within the reach of physicians a vastly i prov means for aiding the stomach digestion of nitrogeno food

Jos. G. RICHARDSON, M.D., Prof. of Hygiene in the University of Pennsyl nia.

Philadelphia, May 16, 1883.

Jensen's Pepsin in Diphtheria.

Dr. Edwin Rosenthal, acting on the suggestion of Dr. L. Wolff, has used an acidulated concentrated solution of eps as an application to the membranes of diphtheritie patients, for which there seemed to be no other help than tract tom and reports that it acted like a charm, dissolving the membranes, admitting a free aeration of the blood, and place the soon on the road to convalescence. The solution he used was-

Jensen's Pepsin Acidi hydrochloric, C. P. ... Aquæ q. s. ft.... ...

M. S. Apply copiously every hour with a throat mop.—From the Med. Bulletin, Philadelphia.

Dr. Jensen's Pepsin as a Solvent in Albuminous Obstruction of the Bladder.

Dr. Hollmann, [Nederl. Weekbl., 18, p. 272] reports the case of an old man aged 80, suffering from retention oluring in whom the introduction of a catheter failed to produce the desired result. It was found that the bladder coain coagulated albuminoid masses mixed with blood. A few hours after the injection of about sixteen grains of Dr. osel Pepsin, dissolved in water, a large amount of a dark, viscid fetid fluid readily escaped by the catheter.—Lov. Me Record.

JENSEN'S BEEF PEPTONE

In Transparent Glassy Scales.

One ounce represents one pound of beef, less fat and a small portion of earthy matter, which precipitates set to process of digestion is entirely completed, thus presenting a true and highly azotized nutrient in the most concernate form possible. This is the first Beef Peptone ever effered to the profession in a strictly completed and unmixed state and will stand the most severely scientific test as to perfectness. For reetal as well as oral administration it easy medicine a new agent by which to overcome asthenic inanition, and thus combat one of the worst features of acutes we as ehronic diseases.

Also in Transparent Glassy Scales, but a trifle Larger.

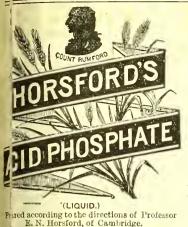
Devised to overcome the long-felt difficulty in feeding sick children who object to food in any hitherto know form but never refuse candy. They will, to the gratification of all interested, feed themselves with this sweet Peptone, das for more. One ounce of this Peptone represents one-half pound of beef.

Both of these Peptones are put up in bottles holding one ounce, eight ounces, and one pound, retailed at 2s l. po ounce.

The above preparations are only manufactured and put up exclusively as specialties by

NORTH 26th STREET, PHILADELPHIA, 1A

Exclusive Agents—GABRIEL & TROKE, Wholesale Druggists, 82 City Road, LONON Sold by F. NEWBERY & SONS, 1 King Edward Street, Newgate Street, LONDON.



RECOMMENDED

YSICIANS

SCHOOLS

For Dyspepsia, Mental and Physical Exhaustion, Nervousness, Wakefulness, Diminished Vitality, &c.

A food for an Exhausted Brain,

In Liver and Kidney Trouble,

In Sea-sickness, Wakefulness, and Sick Headache, In Dyspepsia, Indigestion, and Constipation, In Inebriety, Despondency, and Cases of Impaired Nerve Function,

MIAS BECOME A NECESSITY IN A LARGE NUMBER OF HOUSEHOLDS THROUGHOUT THE WORLD. ad is universally pre-cribed and recommended by Physicians of all schools. It is not nanseous, but agreeable to the taste. No danger can at its nse. Its action will harmonise with such stimulants as are necessary to take.

IT MAKES A DELICIOUS DRINK WITH WATER AND SUGAR ONLY.

Pri reasonable. Pamphlet giving further particulars mailed frec. Manufactured by the

RUMFORD CHEMICAL WORKS, PROVIDENCE, R.I., U.S.A.

PROF. HORSFORD'S BAKING PREPARATIONS

he ide of Horsford's famous Cream Tartar Substitute, an acid phosphate in powdered form, of same strength and appearance as Cream Tartar. This is in the process to the flour the nutritious phosphates which are removed with the bran in the process of bolting, and its use is positively restored.

which are removed with the bran in the process of bolting, and its use is positively neficial to health.

CABLE ADDRESS, "RUMFORD, PROVIDENCE."

W.)LESALE AGENTS—Francis Newbery & Sons, 1 King Edward Street, Newgate Street; Barclay & Sons, 95 Farringdon Street, LONDON, E.C., ENGLAND.

ysicians who have not used Horsford's Acid Phosphate, and who wish to test it, will be furnished a sample and pamphlet on application to either the approach of the above agents; and sample will be furnished free of charge, except the expense of packing and postage (fourpence), which a mount should also any the application.

AMERICAN MEDICINAL

HERBS, BARKS, &c., FOR EXPORT.

PI:K & VELSOR, NEW YORK,

ESTABLISHED 1840.

WOLESALE BOTANIC EXPORT DRUGGISTS.

Idicinal Roots, Herbs, Barks, Seeds, Flowers, Crus, Crushed, Ground, and Powdered. All prepared under own supersion, and guaranteed strictly pure. Being the Oldest Exestively Botanic House in America, with an experience of 40 Justing and preparing American Botanical Products, we on many advantages over competitors. Our reputation for serving our and with goods of prime quality only, and at fair prices, has been long tablished. With this class of goods, QUALITY is of the firs mportance. Nothing is cheap if old or impure. We renew our stocl rery season, and will guarantee satisfaction to all who favour us with eir orders. Orders should be accompanied with draft or New York refer ze. Quntations supplied on application.

8P. IALTIES-Peek's Asthma Cure, Peek's Liver 'ills, Peek's Tincture Veratrum Viride, Peek's yrup Sarsaparilla, Peek's Cough Syrup.

Als Roots and Barks, pressed, in one-lb. packets nd Herbs and Flowers, pressed, in 8-oz., 4-oz., and oz. packets.

PURE CONCENTRATED MEDICINES.

CONCENTRATED TINCTURES. ETC.

We make a full line of RESINOIDS, such as PODOPHYLLIN, LEPTANDRIN, EUONY-MIN, IRISIN, HYDRASTIN, &c., ALL PURE.

So-called Concentrations are in the market, called by the same name as our manufactures, that are made by triturating extracts, etc., with sugar of milk, powdered root, etc.

WHAT ARE CONCENTRATED TINCTURES?

They are not made from the crude material, but by dissolving the active principles in Alcohol in definite proportions, and invariably represent a uniform amount of therapeutic power.

Send for printed matter on CON. TINCT. AVENA SATIVA in the Morphia or Opium Habit, and certificates from different members of the Medical Profession, citing cases under their charge, treated by it; also REVISED AND ENLARGED MANUAL; also Price Lists, to

B. KEITH & CO.,

41 LIBERTY STREET, NEW YORK, U.S.A.

HENRY **TROEMNER**

710 Market Street, Philadelphia, U.S.A.

MANUFACTURER OF



Fine Scales & Weights

Druggists' Prescription Scales, Analytical and Assay Balances.

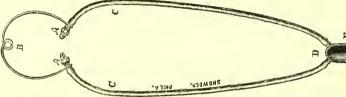
Illustrated Price List on application.

Sold by S. MAW, SON & THOMPSON, London; ROCKE, TOMPSITT & Co., Melbourne.



PERFECTED " BINAURAL STETHOSCO'E





WILLIAM SNOWDEN, Manufacturer and Importer of SURGICAL INSTRUMENTS and APPLIADELY No. 7 SOUTH ELEVENTH STREET, PHILADELPHIA. The Oldest Surgical Instrument Manufactory and Importing House in the United Stas.

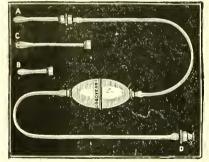
PRICE OF STETHOSCOPE,

SENT BY MAIL ON RECEIPT OF PRICE.

Snowden's "Perfected" Atomiser, No. 1, for the Throat

"No. 2, "No. 3, "Nose." ··· Used in Philadelphia by Professors Gross, Pancoast, Da Costa, D Lev. and Ear Sajous, Sciler. as used and recommended by Professors Gross and Pancoast, a leading surgeons. A sample eard of 14 sizes sent gratis to any ad MS. IRON-DYED PURE

SILK, Ecropean Orders for Silk will receive Prompt Attention if addressed to "ARTEMORBI," Bern, Switzerlan



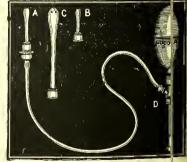
No. 5.

Its superior quality makes it the most desirable of all medium-priced Syringes.

IMPROVED No. 7.

A first-class medium, with Bulb detachable.

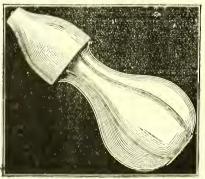
Polished Wood Cases.



York, RUBBER CO., VULCANITE MANUFACTURERS OF SOFT RUBBER AND

ENEWAS Syringes Farringdon Street, E.C. LAWRENCE

FOR GREAT BRITAIN. SOLE AGENTS

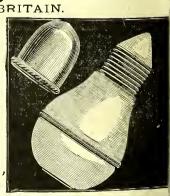


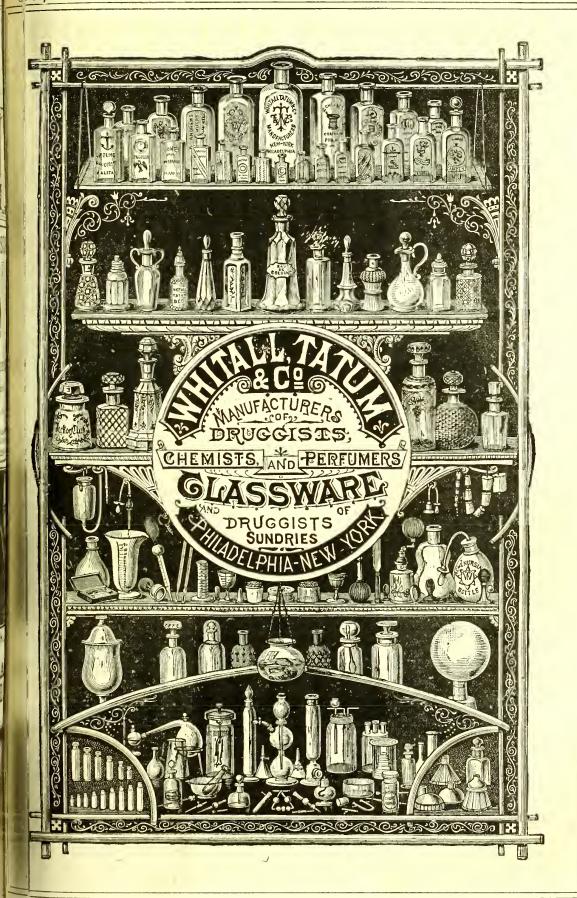
"LADIES"."

Is the simplest and most perfect Vaginal Syringe in the market.

"P.P.P."

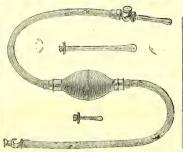
Soft Rubber Urethral Syringe; very useful, as the Solution can be carried safely in the pocket.





DAVIDSON SYRINGES

Nos. 1 and 2,
PURE BLOCK TIN
PIPES.



No. 4,
HARD RUBBEL
PIPES.

UNIVERSALLY ACKNOWLEDGED TO BE THE MOST PERFECT ENEMAS 'MODE A PERFECT INSTRUMENT that can always be relied upon is the CHEAPEST.

With the DAVIDSON Syringes, absolute perfection in the purity of stock, and skill of construction are the objects aimed for, so that by their great durability they are much cheaper to use than any others.

WE COMPETE ON QUALITY ONLY.

The trade never have any bad stock of DAVIDSON Syringes, which is so often the case with the cheap, wo less Syringes, such as rubber growing hard, pipes corroding, valves useless, &c., &c., and during the 25 years that we have ad them, we do not recall a single complaint of their quality. The quality is specially desirable in countries when the have not the means of repairing, or where the climate effects the cheap adulterated rubber goods.

We have recently added a patent improvement to the Syringe in making the metal on the suction el c the tubing in the shape of a hook, so that the instrument can be hung up after use, and all the fluid alload to

drain out, which adds greatly to the durability of the Instrument.

These goods are exported to England, Germany, France, Holland, South America, Mexico, East Indies, &c.

GREAT IMPROVEMENT IN RUBBER BANDAGE ...

DAVIDSON'S

60 FEET



DAVIDSON BURBER CO.

BANDAGES

LONG.

CO.

The advantages in these Bandages will at once suggest themselves to Physicians and Druggists. They are made 60 feet long in four widths $(1\frac{1}{2}, 2, 2\frac{1}{2}, \text{ and } 3 \text{ inches})$, so that any length or width direction can be cut off, and it relieves the Druggists from the necessity of carrying in stock a line of Bandes various lengths.

Many objections are found with Bandages that are made with tapes on the end, as the tapes, being non-e sti

bind the limb so rigidly as to stop or impede the circulation.

With Davidson Bandages these objections are entirely removed, as they are secured in place by using dier safety pins, so that no part of the limb is bound by non-elastic material.

We give the following from the celebrated London Medical Journal, "THE LANCET," of March 25, 1882.

"DAVIDSON RUBBER CO. ELASTIC BANDAGE.—The Bandage seen by us is a very good article, pure, od riest uniform, and with excellent smoothly-cut edges. It is prepared in lengths of 60 feet, from which any length in cut. With it are sold small 'safety' pins for fastening the last turn, as it is objected to the tape usually fastene in Martin's Bandages that it forms an in-elastic constrictor of the part, and in this objection there is some force. It probably sufficient to say that this Bandage fully maintains the high character for rubber goods already won by this improbably sufficient to say that this Bandage fully maintains the high character for rubber goods already won by this improbably sufficient to say that this Bandage fully maintains the high character for rubber goods already won by this improbably sufficient to say that this Bandage fully maintains the high character for rubber goods already won by this improbably sufficient to say that this bandage fully maintains the high character for rubber goods already won by this improbably sufficient to say that this bandage fully maintains the high character for rubber goods already won by this improbably sufficient to say that this bandage fully maintains the high character for rubber goods already won by this improbably sufficient to say that this bandage fully maintains the high character for rubber goods already won by this improbably sufficient to say that this bandage fully maintains the high character for rubber goods already won by this improbably sufficient to say that this bandage fully maintains the high character for rubber goods already won by this improbably sufficient to say that this bandage fully maintains the high character for rubber goods already won by this improbably sufficient to say that the same sufficient to say that t

CATALOGUES FURNISHED ON APPLICATION TO

DAVIDSON RUBBER

Manufacturers of Druggist, Surgical, and Fine Rubber Goods,

30 FRANKLIN STREET, BOSTON, MASS., U.S.A

E. FOUGERA & CO.,

30 NORTH WILLIAM STREET, NEW YORK, U.S.A.,

prters of and Agents for the Principal MEIGN MEDICINAL PREPARATIONS AND SPECIALTIES.

AGENCIES AND CORRESPONDENCE SOLICITED.

IMPORTERS AND EXPORTERS OF

FOREIGN & DOMESTIC HERBS. ROOTS. DRUGS.

CHEMICALS & PATENT MEDICINES.

Consignments and Agencies solicited. Highest references fu Sole Agents for the U.S. for Johann Hoff's Malt Extract. "H. Trommsdorft's Chemicals. Highest references furnished.

818 & 320 RACE STREET, PHILADELPHIA, PA.

Only recently introduced from America, and now being thoroughly advertised, is already commanding an extensive sale in the Metropolis, where it is kept in stock by over 600 Chemists, who pronounce it the best paying Patent Medicine that has been placed in the market for years.

Show-cards, Counter Bills, &c., on application.

Agents wanted in every town not represented, with whom arrangements will be made for advertising in local papers.

KEYMER CHEMICAL CO., 283 Clapham Road, LONDON.

Wholesale Agents: - Messrs. MAW, Son & Thompson and F. Newberry & Sons.

MRRISSON, PLUMMER & CO.,

Importers and Wholesale Druggists,

52 & 54 LAKE STREET,

ILLS

PROPRIETORS OF THE

DPSOMANIA

ALCOHOL AND OPIUM HABITS.

for pondence regarding CONSIGNMENTS OF FOREIGN PRODUCTS solicited.

Rence by permission-FIRST NATIONAL BANK, CHICAGO.

de CAYCEDO

COMMISSION MERCHANTS, AND EXPORTERS OF COFFEE, HIDES, AND INDIARUBBER,

Are desirous of entering in business with English Manufacturers, Merchants, and Bankers. References in London, New York, and Paris, post free on application.

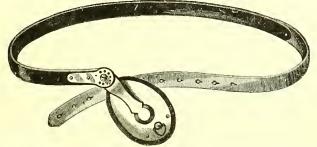
Address-G. de CAYCEDO & CO., BOGOTA, U.S. OF COLOMBIA, S.A.

INDEX TO ADVERTISEMENTS.

SEE PAGES 41-42.

THE

(ELLULOI TRUSS.



AFE STEEL SPRING covered with the BEAUTIFUL CELLULOID, PADS of same material. LIGHT. COOL, AND COMFORTABLE.

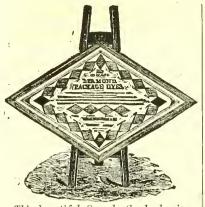
Will not rust or wear out. Well suited to warm climates.

ADPTED BY U.S. SURGEON-GENERAL'S OFFICE.

MADE IN A VARIETY OF PATTERNS.

Acknowledged to be the best Truss now in use.

E.C. PENFIELD & CO., Sole Manufacturers, PHILADELPHIA, U.S.A.



This beautiful Sample Card, showing the different colours of the Dyes, given with each order.

A GREAT AMERICAN SUCCES

24,000 Gross Sold in Six Months

THE

FOR DOMESTIC & FANCY DYFING

BRILLIANT, DURABLE, SIMPLE, ECONOMIAL

For Silk, Wool, Cotton, Linen, Jute, Feathers, Hair, Paper, Basket Work, Easter 1881 All kinds of fancy work, and every species of fabric or fibre.

Price per Package, 6d.

Per Gross, 41s. net

LIST OF COLOURS:

Yellow 0range Scarlet Green

Light Blue Brown

Bismarck

Dark Brown

Dark Blue Navy Blue

Dark Green Seal Brown

Cardinal Red Old Gold

Olive Green Dark Wine

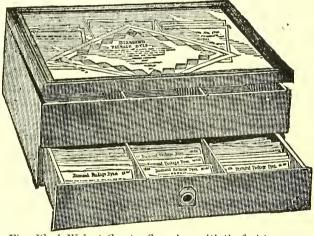
Eosine (Pink) Terra Cotta

Purple

Slate

Violet

Drab.



LIST OF COLOUS: "10 SI

Crushed Strawberr

Plum

Blue for tto Maroon

Crimson Yellow

Black Scarlet

Garnet Cardinal ..

Magenta.

THE DIAMOND PATE

Gold Paint Silve Pain

Bronze Paint

Artists Blace

This Fine Black Walnut Counter Case given with the first two-gross order.

What we give the Trade with an Order for Two Gross

A beautifully finished Black Walnut Counter Case with Drawer, giving room for a full assortment of See cut above.

A large number of handsome Sample Cards, showing 27 eolours, for distribution.

A supply of the prettiest Fancy Advertising Books ever issued, giving full instructions for use of the Dyes.

The best Sample Cards and Show Cards ever got out for dye colours.

A beautiful framed Sample Card with easel landing See cut at top.

A large Sample Book showing the colours nac by the Dyes on Woollens.

A handsome Sample Book showing the dou made on Cottons.

Samples showing the colours of the Inks nad from several Dyes.

Samples showing the Diamond Paints.

Our Goods may be obtained from S. Maw, Son & Thompson; Lynch & Co.; Bourne, Johnson & Latimer; F. Newbery Son Barclay & Sons; W. Edwards & Son; Burgoyne, Burbidges. Cyriax & Farries; Baiss Brothers & Co., London; W. 1 Forces, ham & Sons; Evans, Sons & Co., Liverpool; Goodall, Backhouse & Co., Leeds; Raimes & Co., York; Raimes & Co., Edinburgh; W. & R. Hatrick & Co., Glasgow; Clark & McMullen, Belfast, Ireland; Boileau & Boyd, Dublin; and managed the Wholesale Druggists and Druggists' Sundriesmen throughout the World, or from the Manufacturers,

WELLS 82 RICHARDSON

125 to 135 College Street, Burlington, Vermont, U.S.A., and 223 McGill Street Months al AND AT 1 & 2 AUSTRALIAN AVENUE, LONDON, E.C.

AGENT FOR AUSTRALIA AND NEW ZEALAND-MR. W. H. H. LANE, SYDNEY, N.S.W. [1 000]

DIAMOND DYES ORIGINAT

THE DIAMOND DYES were originated by scientific experts who determined to before the people, in practical shape for their use, the magnificent dye stuffs recently discovered.

their greatly superior quality has only been made possible by recent important chemical discoveries, mal by leading scientists, both European and American. Two-thirds of the colours are made from dyes tha vere unknown two or three years ago.

n the largest factories, and for the finest goods, these new chemical dyes are rapidly superseding all theld dye stuffs, while for family use they are incomparably superior, being so much more simple,

brient, and economical.

n durability they are unexcelled by any known Dyes.

The phenomenal success of the Diamond Dyes in America, Canada, and Anstralia has induced the

pre leters to introduce them in Great Britain.

Isse DYES must not be confounded with other articles purporting to be for the same uses. The Dyes herefore offered in the English markets are made of materials altogether inferior, and they possess but a from of the colouring power of the Diamond Dyes, and entirely lack their brilliancy, beauty of colour, dwility and fastness. In simplicity of use, and ample instructions for all purposes, the DIAMOND DYES are ithout a rival.

Passes, Coats, Cloaks, Scarfs, Hoods, Yarn, Stockings, Carpet Rags, Ribbons, Feathers,

or, fabric or fancy article can be casily and surely coloured to any shade wanted. Each dye is complete in ill, thereby saving all extra expense and trouble of buying other articles to set the colour. All the were so simple in their method of use that even a child can be successful with them.

THE

HAMOND DYES,

FOR MAKING INK.

In a package of Diamond Dyes a pint of the very best ink can made by simply dissolving in hot water. They are bett than the Inks sold in small bottles and cost less than one-Scholars, Book-keepers, Merchants, Failes, and all Writers will find them valuable for Writing, Orig, Ruling, Marking Goods, Checking, &c., &c.,

LACK. REEN.

BLUE, RED.

VIOLET. ORANGE.

Il directions given for making Writing Ink, Copying Ink, Shang Ink, and Copygraph Ink.

I Colouring Easter Eggs, Feathers, Grasses, Mosses, Eventing Flowers, &c., &c., the DIAMOND DYES are the bes 1 the world.



ONLY SIXPENCE A PACKAGE.

DIAMOND GOLD PAINT.

Equal in quality and quantity to the 1s. 6d. packages of other makers.

For Gilding Fancy Baskets, Frames, and every variety of Wood Work; Metallic Ornaments, Crosses, Emblems, Mottoes, &c.; Furniture and Household Ornaments; Repairing Gold Frames, and all other Gildel Work.

There is scarcely a household ornament that is not greatly improved by a little tasteful gilding, and many fashionable decorations are more than depthed in value by it.

doubled in value by it.

There is no kind of ornamental work more fascinating to ladies than this, and none more easily executed.

DIAMOND SILVER PAINT.
This can be employed to decorate all articles on which Gold is used, and in some eases is more appropriate—or the two are often used together.

DIAMOND BRONZE PAINT.

This preparation may be used to decorate all articles on which Bronze produces the most appropriate effect. A coating of Diamond Bronze Paint will cause a well-made plaster figure to resemble a costly example in solid

Chandeliers, Gas Fixtures, Lamps, and Ornaments, may be made fully equal to new, and at an insignificant cost. It is easily applied, and dries in a few moments.

DIAMOND ARTIST'S BLACK.
For Ebonizing Picture Frames, Cabinet Work, &c., &c. It gives very handsome effects in contrast with the Gold and Silver Paints

We call particular attention to the following page, and to the Extracts from letters printed there. The letters were received by us from Wholesale Druggists in all parts of the United States, and from Canada and Nova Scotia. The prove all we claim for DIAMOND DYES, and show how vastly superior they are to all the Dyes heretofore on the market.

ur Goods may be obtained from S. Maw, Son & Thompson; Lynch & Co.; Bourne, Johnson & Latimer; F. Newbery & Sons; Baily & Sons; W. Edwards & Son; Burgoyne, Burbidges, Cyriax & Farries; Baiss Brothers & Co., London; W. B. Ford-bark Sons; Evans, Sons & Co., Liverpool; Goodall, Backhouse & Co., Leeds; Raimes & Co., York; Raimes & Co., Edjurgh; W. & R. Hatrick & Co., Glasgow; Clark & McMullen, Belfast, Ireland; Boileau & Boyd, Dublin; and from all Whesale Druggists and Druggists' Sundriesmen throughout the World, or from the Manufacturers,

WELLS RICHARDSON

12 to 135 College Street, Burlington, Vermont, U.S.A., and 223 McGill Street, Montreal; AND AT 1 & 2 AUSTRALIAN AVENUE, LONDON, E.C.

AGENT FOR AUSTRALIA AND NEW ZEALAND-MR. W. H. H. LANE, SYDNEY, N.S.W. [See opposite page.

PRODUCT of South America, recently introduced into the United States, approved by the American Institute; cleanses fabrics in the most astonishing manner; white, clean, fragrant.

NO MORE VIII BENZINE.

METALLIC BOXES, ONE SHILLING.

WHOLESALE BY

BARCLAY & SON, 95 FARRINGDON STREET.

And may be obtained from all Wholesale Patent Medicin Houses.

REQUA & WETMORE,

130 FULTON STREET, NEW YORK, U.S.A.,

DRUGGIST 10-CENT SPECIALTIES.

New Goods constantly being added to our line.

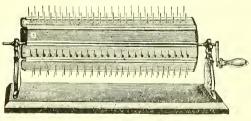
Our Illustrated Price List sent on application to all reliable Druggists.

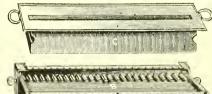
Our Specialties to be had of all Wholesale Druggists' Sundriesmen throughout the world.

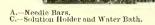
We desire an Agency in Great Britain; also Agencies and Correspondence solicited.

PORCUPINE"

Patented by CHARLES C. WELLS, Saratoga Springs, New York, U.S.A.







For particulars read Advertisement in July number of The CHEMIST AND DRUGGIST, page 101.

For Descriptive Circulars, send to

CHARLES $\mathbf{W}\mathbf{E}\mathbf{L}\mathbf{L}\mathbf{S}$.

SARATOGA SPRINGS, N.Y., U.S.A.



NO GENTLEMAN OF LADY should EVER be without this CEEE BRATED MATCH CASE; it is the ACME of PERFECTION. The fortunate possessor has only to push the slide quickly when a match presents 178ELF LIGHTED. Your clothes, walls, and furniture need no longer be injured or defaced. Many vexations and dangers are overcome.

Prices, post free, SOLID NICKEL SILVER, 2s. SOLID BOXAMA SILVER, 3s. A liberal discount on quantities, delivered FREE to any port of the world. Address, F. S. DANGER-PIELD, Sole Mir., AUBURN, N.Y., 7.

DRUGGISTS make 140 per cent, proand selling Register's Liniment. The best in the
world. Write for particulars to F. REGISTER,
Prop'r, 324 Sth. 5th St., Phila., Pa., U.S.A. A reliable
druggist wanted in each town.

Do not fail to send to your Wholesale Huse

FOR A SAMPLE DOZEN

SELLS EVERYWHERE.

Retail Price 1/- cach. Affords relief in cases of Asthma, Bronchi, Sor Throat, &c., when every other means has failed.



Established 1852,

INDEXICAL SOAP COMPAIY.M

MANUFACTURERS OF

SILVER, PUMICE, SHAVING, DENTIL,

FINE TOILET SOAPS.

INDEXICAL SOAPS

Are prepared from the choicest materials; all are boiled soaps, with ting odours; they are durable, economical, and always mild and whole it.

LARGE OVAL SOAPS.

Honey, Glycerinc, White Glyccrinc, Brown Windsor, Turtle Oil, Capal Glycerine, Almond Meal, Poncine, Zahater, Sunflower, Rice Baby, Palm Oil, Farina, Pure Almond, Bay Leaf, Musk Windso Par, Sand, Pun ice, &c.

GIANT SOAPS.

Honey, Glycerinc, Pink Bath, Bec Bath, Oatmeal, Elder Flowe The Giants are half-pounds of the finest quality boiled and pe med pure soap, and the cheapest toilet soaps to be obtained anywher

INDEXICAL SILVER SOAP.

Made expressly for cleaning and polishing Silver and Plated War old and Plated Jewellery, Pearls and Precious Stones, Gold Chains, & and for cleaning Window Glass, Mirrors, Marble, Tin, &c. It is much ore convenient and effective than plate powders, and may be used et by inexperienced help with perfect safety, as it contains nothing the will injure the finest plate or jewellery, or even the most delicate skin. It far superior to any other soap for cleaning fine House Paint, Statua &c. Made only by

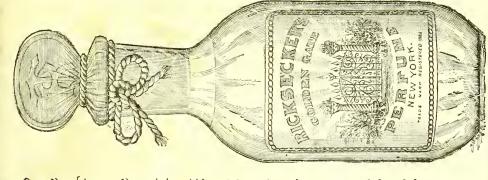
WHOLESALE AGENTS FOR EUROPE.

CROWDEN & GARROD,

Falcon House, Southwark Bridge Road, LONDON, E.

.Compane

A. Destrime. Reyona



HoBa 0 PManenev 米 00 (O) 0 0) Xce 00



Under Patronage of the United States Government. ESTABLISHED 1850.

Awarded Two Premiums at Centennial Exhibition, Philadelphia, 1876.



T Improved Patent "CHAMPION" TRUSS is the most practical Truss made, and the most popular with dealers generally who have fitted and sold them.

MARINE HOSPITAL SERVICE.

THE PHILADELPH

EACH TRUSS WARRANTED 300

Genuine bear our Firm Name, Dates of Patents, and our Trade Mark, "Champion," on plate of each Truss.

Our line of genuine Hard Rubber Trusses, &c., is the most complete in the trade and our prices the lowest.

With the largest factory and facilities in America, if not in the world, exclusively for our full line of goods, we respectfully and confidently solicit orders and correspondence from all quarters of the globe.

TRUSS

CO.,

Inventors and Sole Manufacturers of the

IMPROVED PATENT CHAMPION "TRUSS"

(Patented September 21, 1875, and September 21, 1880).

Ald Manufacturers of the Adjustable Abdominal Supporter (the best in use), Spring and Elastic Trusses, Abdominal Supporters, Elastic Stockings, Belts, Shoulder Braces, and Suspensory Bandages.

Oice & Factory: 610 Locust Street, PHILADELPHIA, Pa., U.S.A.

Depots in Canada: LYMAN, SONS & CO., Montreal; LYMAN BROTHERS & CO., Toronto, Ontario.

Depot in Great Britain: F. SCHUTZE & CO, 14 South Street, Firsbury, London, E.C.

Bed-Bugs, Insects, Skunk, Weasel,

VE.

18, V

Roaches, Flies, Ants, Mosquitoes, Clears out Rats, Mice,



LOOK OUT For Imitations. SEND **FOR** Advertising Matter-

BUY

your Name on.

Wholesale Your Druggist.

The thing desired found at last!

SOMETHING RATS WILL EAT,
Rats are smart but Rough on Rats boats them. Clears out a building in one application.

SURE DEATH to RATS, MICE, FLIES, Vermin, An Insects, Roaches, Water Bugs, Bed Bugs, &c.

Made only by EPHRAIM S. WELLS, Chemist, JERSEY CITY, N. J. or sale by Druggists and Storekee in 15 & 25c.boxes. ABEL REGISTERED

1s.: 6s. 5d. doz.

₩ 7½d.; 4s. 3d. doz.

EPIE, 16c. or Monse Size

The thing desired found at last !
'HING RATS WILL EAT, ONCE
h sure. Rats are smart but Rough on Rats
Itclears cut a building in one application.

POISON!

ROUGH ON RATS.

Rough on Rats sure death to Bats, Mice, Flies, Vermin, Boaches, Water Bugs, Bed Eugs, 20.

Made by EPHRAIM S.WELLS, Chemist

JERSEY CITY, N. J. or sale by Druggists and Store in 15 and 25c. boxes.

LABRE REGISTERED

No loss by breakage, leakage, or evaporation.

Will keep a thousand years in any climatc.

No Grease to soil the drawers or other goods.

Used for Insects, Bugs, &c., as well as for Rats and Mice.

Always does the work. Lowest price of its

Pays better than any other.

ADVANTAGES OF

CAREFUL DRUGGIST!

Who do not sell arinic, and strychnine is is. criminately, and ye do not wish to incur ispleasure of Patrons by absolute refusal, can fer $7\frac{1}{2}d$. boxes of

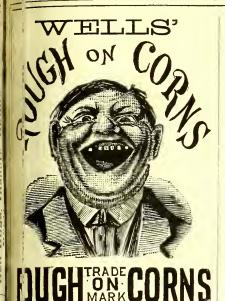
"ROUGH ON RAS"

as a compromise stitute.

MAY BE OBTAINED FROM THE PROPRIETOR.

E. S. WELLS, Jersey City, New Jersey, U.S.A.;

And all Wholesale Druggists and Drug Sundrymen throughout Great Brite.



NO BREAKAGE!

Each bottle packed in a Turned Wood Box.

7½d. size, 4s. 3d. doz. ,, 6s. 5d. ,, 1s.

E. S. WELLS, Jersey City, N.J., U.S.A.



ROUGH TONE CORNS

Largely Advertised, same as "Rough on Rats." PAYS 100 PER CENT.

Send for Advertising Matter. Buy of your Jobber.

REMEMBER THING!



BILIOUSNESS, LIVER COMPLAINT, DYSPEPSIA AND CONSTIPATION.

he Original and Genuine are made pure only by IRAIM S. WELLS, Chemist, 22 Summit Ave., Jorsey City, N. J., U. S. A. PRICE 25 CTS.

THE GOODS I OFFER YOU

PAY A BETTER PROFIT

THAN ANY OTHER

ADVERTISED

REMEDIES.

PER CENT.

ON THESE PILLS,

And Extensively Advertised.

72d. size, 4s. doz. 1s. ,, 5s. ,,

SEND FOR ADVERTISING MATTER.

alatable and Profitable.

STEET AND NICE TO TAKE. EFFECTIVE, HARMLESS.

For Children or Adults.

1s. size, 6s. dozen.

FO FEVERISHNESS, RESTLESSNESS, CONSTIPATION, WORMS.

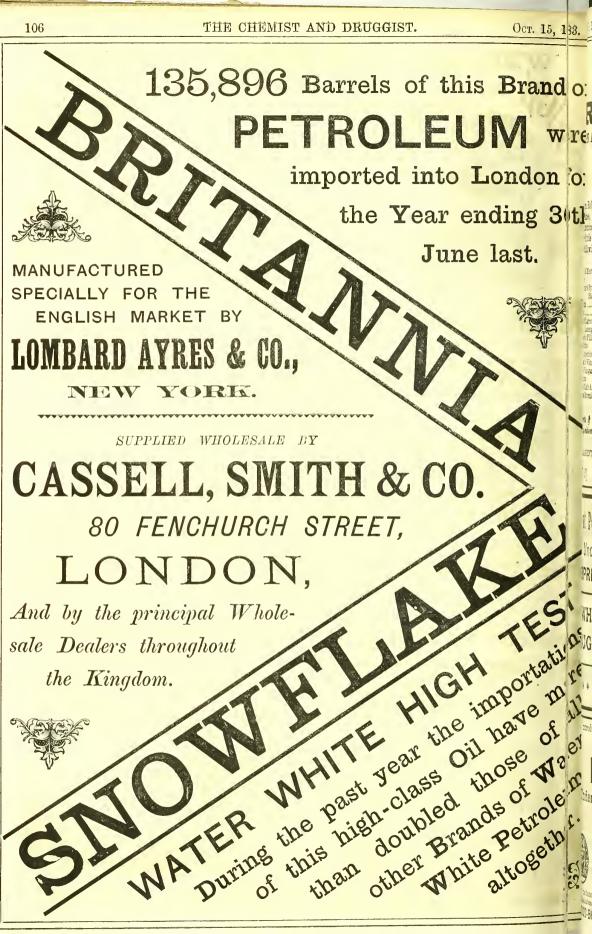
Snd for Advertising Matter.

E. S. WELLS, JRSEY CITY, N.J., U.S.A.

MOTHER SWAN'S



WORM SYRUP.



than other Brands of Week

SPECIALITIES AND MEDICINES. FOREIGN

REVISED LIST. PRICE

FREIGN AND ENGLISH CHEMISTS, WHOLESALE, IMPORT, AND EXPORT AGENTS FOR FOREIGN MEDICINES AND PATENTS,

STREET, LONDON. BOND

Messrs. Roberts & Co. beg to inform the Trade that they are Agents for all the principal French and Foreign Specialities in Medicines, a large supply of which they have always on hand, and can supply on very favourable terms. They are in a communication with their Paris House, and can offer exceptional facilities for procuring New Medicines, &c., &c., vi very little delay.

The following is a list of a few that they name au hazard, and that have a large sale:—

	4/6. ", Raquin 30/ 4/6. ", Mathey Caylus 28/ 4/6. Chassaing's Wine 38/6 2/9. Pills 24/6 4/6. Clin's Bromide Cam. Dragées 45/ 5/0. Eau Botot 38/ 3/0. Ditto 24/ 2/6. Espic's Cigarettes 14/	11/. , Pills .99/ 2/3. Papier Fayard 13/6 13/6 1/1½ Ditto 7/ 4/. Papier Fruneau .27/ 2/3. Ditto .15/ 1/9. Pâté Aubergier .14/6 2/0 de Berthé .16/	4/0. Recahont		
8/8 Ditto27/	4/6Clin's Bromide Cam. Dragées 45/	4/Papier Fruneau27/	4/6 , Capsules38/		
// lancard's Pills30/	2/6 Espic's Cigarettes14/	2/0 " de Berthé16/	2/9Vallet's Pills22/		
	5/6Elixir de Coca	2/9, de Coca	1/9. Ditto		
#6. ugeaud's Wine35/	2/0Gayetty's Paper16/	1/11 ,, Ditto 8/6	3/6 Ditto ditto 30/		
	2/3Granules Arsen. Acid15/ 2/3, Iron15/	1/9, de Nafé			
W., inde's (Lait Antéphilique) 36/	2/8 Soda15/	7/0. Pierlot's Valerian	4/6Vin de Coca Mariani44/6		
M. psules Bromide of Camph. 45/ 2/9. Grimault's Syrups24/ 2/9. Rabuteau's Dragées Ferrug. 28/ Special Quotations in large quantities.					

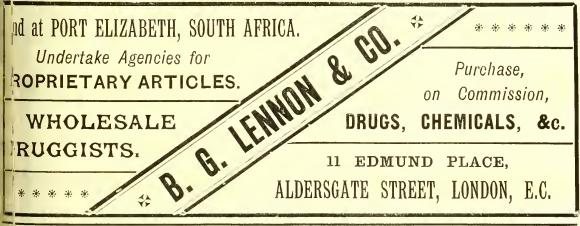
M Roberts & Cie. ont l'honneur d'informer MM, les Pharmaciens Spécialistes de France et de l'Étranger qu'ils se mettent ik disposition pour des dépôts qu'ils voudraient établir à Londres. On peut avoir tous renseignements en s'adressant à leur maison de Londres ou à Paris.

EXAL AGENTS FOR MARIANI'S ELIXIR, EXTRACT, PATE, PILLS, SYRUP AND WINE OF COCA, AND FOR VALENTINE'S MEAT JUICE, AND LE GRAND'S ORIZA PERFUMERY.

Es dished]

House in Paris, ROBERTS & CO., Place Vendome, 23.

[1823.



Sincthe introduction of Pepsine by BOUDAULT and Dr. L. CORVISART, BOUDAULT'S Preparations have been considered the most reliable.

Under the form of PEPSINE WINE and PEPSINE POWDER.

The Paris Hospitals have used no other.













The y of the International Exhibition, Paris, 1867, awarded to Boudaudt's Preparations the only Medal given for Pepsine. Since that time it has a Medal at each of the International Exhibitions—Havre, 1868; Lyong, 1872; Vienna, 1873; Philadelphia, 1876; Paris, 1878; and Melbourne, 1880 Since that time it has 1)TTOT-BOUDAULT, 7 Avenue Victoria, PARIS. SQUIRI SQUIRE, 413 Oxford Street, LONDON.

ROCKE, TOMPSITT & CO., WHOLESALE DRUGGISTS MELBOURNE,

24 BASINGHALL STREET, LONDON, E.C.

Samples and Quotations solicited.

Agencies undertaken on the most advantageous re

Wholesale Depot for Sander & Son's Pure Volatile Eucalyptus Oil (Eucalyptol), and Importers of Oil of Eucapt Wholesale Agents—Messrs. Hodgkinson, Prestons & King, 81 Bishopsgate Stree; Without, E.C.

FELTON, GRIMWADE & CO.,

Wholesale Druggists and Manufacturing Chemists

MELBOURNE, VICTORIA.

LONDON AGENTS:-

Messrs. GRIMWADE, RIDLEY & CO., Mildmay Chambers, 82 Bishopsgate See Wholesale Agents for Oil of Eucalyptus.

KEMPTHORNE, PROSSER & CO., NEW ZEALAND DRUG COMPANY, LIMITED

Wholesale Druggists,

MANUFACTURING CHEMISTS, AND COMMISSION MERCHANG

Head Office and Factory, DUNEDIN.

BRANCH HOUSES:

High Street, CHRISTCHURCH, Lambton Quay, WELLINGTON, Shortland Street, AUCKLAND,

Patent and Proprietary Medicines Agency.



NEW ZEALAII

London Agents

Messrs, GRIMWADE, RIDLEY & Co., 82 Bishopsgate Street

GRAVES AICKIN,

"THE PHARMACY,"

DSPENSING PHARMACIST & DRUG IMPORTER,

AGENT FOR-

J. & E. Atkinson's Perfumery. Pulvermacher's Galvanic Appliances, &c.

Grimault & Co., Paris. Burroughs & Wellcome's Pharmaceutical Preparations

mpr of Fine Chemicals, Best Brushware, Indiarubber Goods, Surgical Instruments, Druggist's Sundries, American Herbs, Fluid Extracts, New Remedies, &c., &c. English, French, and American Patent Medicines.

IDD SS (opposite Bank (lew Zealand)

QUEEN STREET, AUCKLAND, NEW ZEALAND.

I. RENNARD & CO.,

WILESALE AND DISPENSING CHEMISTS,

BOMBAY,

₹E PREPARED TO ACCEPT AGENCIES FOR Hew Specialties, Patent Medicines, Druggists' Appliances, Spirits, Perfumery.

CARESPONDENCE SOLICITED.

J. W. MASON & CO.,

15 OYD STREET, CALCUTTA, INDIA,

MERCHANTS.

d Introducers of and Wholesale Dealers in

MEDICINES.

ERFUMERY, TOILET REQUISITES, &c.

Inverses wishing their Specialties introduced into India should apply to the above.

IFERENCES GIVEN ON APPLICATION.

NOTICE.

any fi wishing to push a really good preparation in India, the upraigned would be glad to give their best attention to its is, provided they were entrusted with the Sole Agency.

them s, Druggists, & Importers of European Commodities,

UMBALLA.

rents-Messrs. S. FITZE & CO., London.

E. PLOMER & CO.,

CHEMISTS TO THE VICEROY OF INDIA,

SIMLA AND LAHORE.

LONDON AGENTS-

Messrs. A. DURANT & Co.,

89 GRESHAM STREET, E.C.

GENUINE THIBET

"PHŒNIX"

BRAND.

SEASON

MUSK.

1881.

Grained, and Guaranteed Pure by SYMES & Co., The Viceroy's Chemists,

SIMLA

(HIMALAIAO).

MUSK of the above Brand is received direct from SIMLA (in GRAIN only).

It is now put up in bottles of only one size, each containing toz. avoirdupois. PRIOR, 75/; two bottles, 45/; four bottles, 85'. For 4 oz. (16 bottles) and upwards, 89/ per ounce.

LYNCH & CO., 192 Aldersgate St., LONDON.

The best material for the filtration of Chemical and Technical Products and for Dressing Wounds is the Drawn Glass supplied by

a/N, GABLONZ BOHEMIA,

MANUFACTURER OF ALL KINDS OF

GLASS SYRINGES, &c.

ILLUSTRATED PRICE LISTS FREE BY POST.

THE CERTAIN CORN CURE. CALLICURA

REGISTERED.

PRICE, 1s. 11d.

Wherever introduced a large sale ensues, as the Cure is a fact. Recommends itself, and so ensures a continually extending demand. "CALLICURA" is not a caustic, but merely a simple paint, a few applications of which deadens and kills the worst corns, so that they may be painlessly removed entire in a few days. Corns of 30 years' standing have been entirely eradicated when all other remedies have failed. The numerous Testimonials that are constantly being received testify to the fact that a Certain Cure has at last been found.

Attractive Handbills, with Name on, enclosed to any Wholesale House for Home or Foreign Trade.

Sold Wholesale by the usual London Houses. Sole Proprietor-

J. R. FAULKNER, 33 Ladbroke Grove Road, Notting Hill, LONDON, W.

ESTABLISHED 13.

EXPORT

Manufacturing Chemists and Druggists' Sundriesmen.

ESTABLISHED 1833.]

JEWRY STREET, LONDON,

QUALITY GUARANTEED BY AFFIXING TRADE MARK TO EVERY PACKAGE.

TRADE MARK



QUALITY GUARANTEED

AFFIXING OUR TRADE MRI

TO EVERY PACKAGE.

FOR EXPORT ONLY.

An exhanstive illustrated Export Prices Current, comprising every requirement of the Chemist and Druggist, will be publied of the 1st of January, April, July, and October, and can be had by application (post free) on receipt of trade card. The attention of the trade is especially called to their preparations, including Extracts, Concentrated Decoctions, and Infusions, for which their nan is swell established, and are guaranteed to be prepared with the utmost care from the finest drugs, and which will keep in hot clim's for any reasonable length of time.

Manufacturers of Fruit Essences, which form a ready means when mixed with Acidulated Simple Syrup, of producing an artition has all the flavour of the freshly pressed fruit, and can thus be used with acrated water as a most refreshing drink in all hot clim s.

CORRESPONDENCE IN ALL

Æthers, Alcohols, Liniments, and Tinctures shipped in bond at lowest market prices.

Patent Medicines and Proprietary Articles at special net prices. and Philosophical Instruments. Surgical Instruments.

Indents sent through Merchants should specially bear the name of Baiss Brothers & Co., and will be put on very best 'ms.

Manufacturers of Pharmaceutical Preparations,

Vivienne — PARIS — Rue

& CIE, successors of Peliciei Prepared by Messrs. ARMET DE LISLE DELONDRE & LEVAILLANT, with their Renowned "QUININE DES TROIS CACHE'S." These Capsules are very thin, transparent, and dissolve easily in the stomach; they contain each

10 centigrams (over 12 grain English) of the pure Sulphate of Quinine in silky crystals, a are m capable of indefinite preservation.

SOLD IN BOTTLES OF TEN OR TWENTY CAPSULES.

DUSART'S Syrup of Lactophosphate of Lime.

Syrup of Lactophosphate of Lime and Iron.

Wine of Lactophosphate of Lime.

Ferruginous Wine.

GRIMAULT'S CIGARETTES of Cannabis Indica. Syrup of Hypophosphite of Lime.

GUARANA Powders, against headach MATICO Capsules and Injections.

SANDAL PURE PEARLS 0F

CHAPOTEAUT'S Elixir of Beef-Peptone.

Liquid Beet-Peptone, or Conser?

Pearls of Pure Pepsine.

London Agents—WILCOX & CO.; NEWBERY & SONS; BARCLAY & SONS.

ESTABLISHED OVER FORTYYEARS.

R. HARKER, STAGG & MOSS

15 Laurence Pountney Lane & Arthur St. West, London, E.C.,

WHOLESALE AND EXPORT DRUGGISTS

Marmarentical

IMPORTERS OF

TAKERS OF ALL SOLUBLE AND FRUIT ESSENCES.

V. Lavand. Edule.

SPECIAL DISTILLATION

This has been distilled by us for many years, and enjoys an excellent reputation. strongly recommended for economy in use, having an exceedingly fragrant and lasting odour. 18/- per lb.

Cleum Menthæ Piperitæ

CAMBRIDGE

MITCHAM

Oil of this season is very excellent in quality, and our own selections from the product of the various stills are distinctly above the average.

Catruct of Mall Our Brand of this preparation, now rapidly coming to the front as a nutritive and dietetic, is prepared in vacuo, is of a light colour, and keeps well. It is prepared only from the best malted barley, and may be relied upon as containing the full proportion of Diastase, as well as 85 per cent. of solid nutritious food stuff.

'od Liver Oil The scarcity and high price of Norwegian Oil has caused more attention to be given to Newfoundland Oil, which we supply of very good quality, almost free from smell and taste, at a moderate price.

Tusteless Custor Oil This is an excellent article, rapidly winning its way into favour, at a slight advance on the price of the ordinary.

Buyers are invited to apply for Samples and Quotations.

CKHAR

HOLESALE DRUGGISTS.

Prepared from Pure and Methylated Spirit.

Put up in all size of bottles. A strap with Name and Trade Mark of the Firm is placed over the stopper of each bottle. For Export, in bottles orks and luted (stoppers attached), and in hermetically sealed flasks when required. N.B.—We guarantee our Chloroform prepared from METHYLATED SPIRIT to be PURE CHLOROFORM, answering all the te of the

CHLORIC

SP. ÆTHER. NITROS. SYR. FERRI PHOS. CO. (PARRISH Pharmacopæial Preparating Fluid Extracts, Concentrated Infusions, and all

MANUFACTURERS OF THE CELEBRATED

WRITING INK BLUE BLACK INK 8 COPYING SHIPPERS SUPPLIED ON LIBERAL TERMS.

White Gutta Percha for Stopping Teeth, in 6d. and 1s. Boxes

Manufacturers of

ITS SALI

And all Products from Opium.

wering all the Tests of the British

ALSO, ANÆSTHETIC ETHER, ALOIN, BEBEERIN, CHRYSOPHANIC ACID, SALI IN

MAY BE HAD FROM ALL THE WHOLESALE HOUSES, AND AT

17 NORTH BRIDGE, EDINBURGH, and 71 COLEMAN ST., LONDOL

CHEMICALS, AND

(LATE DREW, BARRON, & CO.),

MANUFACTURERS OF ALL DESCRIPTIONS OF PHARMAGEUTICAL PREPARATIONS

Beg to inform Merchants, Shippers, &c., that all Indents entrusted to them will recove careful attention and prompt execution.

Messrs. B., S. & Co. request the attention of their friends and the Trade, at home and abroad, to ein having PURCHASED THE BUSINESS of Messrs. JAMES BASS & SONS, Hatton Garden, and with the various Formulæ from which their Special Preparations have been made, and pledge themselves to supply in all their integrity.

Specimens of tiese Preparations have remained in the Museum of Kew Gardens during 23 years without deteriorations

IVANS, SONS & CO.,

56 HANOVER STREET, LIVERPOOL;

I SUGDEN EVANS & CO., TRADE

Montreal, Canada.



PARIS AGENCY,

20 Rue J. J. Rousseau.

EVANS, LESCHER & WEBB,

60 BARTHOLOMEW CLOSE, LONDON;

MANCHESTER OFFICE:
1 nd 2 Exchange Buildings, Cromford Court,
Market Street.

BIRMINGHAM OFFICE: Barwick Street, off Livery Street.

WHOLESALE AND EXPORT DRUGGISTS

AND

Manufacturing Pharmaceutical Chemists.

Maifacturers of Druggists' Sundries, and Dealers in Patent Medicines, and every requirement for Chemists and Druggists.

SOLE PROPRIETORS OF "SAVAR'S" SPECIALTIES.

PRIS CURRENT OF DRUGS AND CHEMICALS, AND DRUGGISTS' SUNDRIES (ILLUSTRATED), SUPPLIED ON APPLICATION ENCLOSING BUSINESS CARD.

LLUSTRATED EXPORT LISTS

bt 200 pages each), containing Prices of Drugs, Chemicals, Pharmaceutical Preparations, Druggists' Sundries, frgical Instruments, and Patent Medicines, &c., are sent post free to any part of the World on application (NGLISH, in January and July; SPANISH, in April and October).

THE ABOVE LISTS OFFER UNUSUAL ADVANTAGES AS A MEDIUM FOR ADVERTISEMENTS.

Mak of Proprietary Medicines, Perfumers, &c., by advertising in same, will have their specialities brought prominently under the fice of dealers in all parts of the world. Terms for advertising (which are strictly moderate) may be obtained by applying Messrs. Evans, Sons & Co., 56 Hanover Street, Liverpool. All Advertisements translated into Spanish free of charge.

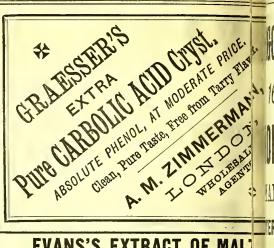
H. SUGDEN EVANS & CO., WHOLESALE DRUGGISTS.

MNUFACTURING PHARMACEUTICAL CHEMISTS.

General Commission Merchants, IONTREAL, CANADA; & BOSTON, U.S.A.

N.B.-H. Sugden Evans & Co. are prepared to accept Agencies for European Proprietary Articles, Perfumery, &c., r the Dominion of Canada and United States of America. All communications, in the first instance, to be addressed to Evans, Sons & Co., 56 Hanover Street, Liverpool.





MAGNESIA. NEFORD'S FLUID



PERFECT IN PURITY AND UNIFORM IN STRENGTH.

Sold by all Wholesale Druggists, and by the Manufacturers,

DINNEFORD Pharmaceutical Chemists. 180 NEW BOND STREET, LONDON.

EVANS'S EXTRACT OF MAL

Strongly Recommended in Asthma, Bronchitis, Consupti^{RII} Atrophy, Indigestion, and in Stomach Cough (Vide Report of Professor Attfield, Ph.D., F.C.S., Professor of emily to the Phar. Soc. of Great Britain.)

Nov., 1872.—"Evans's Extract is incomparably more valuable that my paration of Matth thereto offered to the public."

The introduction of this Preparation to the notice of the Proision every variety of bleeding arose from the desire expressed by severa min Physicians and many patients to obtain an efficient Styptic at a deprice—Ruspini's celebrated Styptic being so costly.

P. C., Saylly, M.D., &c., Surgeon to the Meath Hoperial, writes:—"I fin to greatest use, in fact, in every instance was equal, in the uperior, to Ruspini typ T. P. Mason, M.D., &c., Physician to Mercer's Hospital, writes:—"T sty you had the goodness to forward to me, I found highly advantaged in Hemorrhage of Phthisis.

Circulars of these Preparations may be had on application.

EVANS, CHEMIST TO THE QUEEN IN 49 Dawson Street, Dublin, Ireland. U.S.A.—WYETH & BROTHER, PHILA P.

Highly recommended in various forms of dyspepsia, having a direct action upon the mucous membrane of the stom intestines as a sedative. It can be administered with marked and almost instantaneous effect in the irritative form of dyer more especially when pyrosis is a conspicuous symptom, and pain occurs an hour or more after food. In simple neuralgical pain following eating, occurring in feeble subjects, it is especially indicated, and even in carcinoma it has been used wit grad success in alleviating pain and vomiting.

In the dyspepsia of patients dependent upon some organic disease, and where there is a decided loss of nerve pow ite of singular service. Thus, for instance, a person after a meal complains of a peculiar gnawing and emptiness, with slig pat the epigastrium, evident signs of general relaxation and loss of nerve power, clinical experience has shown that it is service as a tonic and stomachic. A portion of its value arises, it may be, from its action upon the spinal motor nerve not be these things as they may, experience has abundantly demonstrated the value of the compound as a stomachic, antide particle of the compound as a stomachic antide particle of and tonic, in general functional atony and relaxation, and in the various forms of dyspepsia, constipation, or diarrhees, coecy with atony of the visceral muscular coat, the Mist. Pepsinæ Co. c. Bismutho is a very valuable remedy. In the exist purging of Phihisis, accompanied with night sweats and restlessness, Dr. Mathews, of Nantwich, has used it with maril and the same of the visceral muscular coat, the Mist. Pepsinæ Co. c. Bismutho is a very valuable remedy. In the exist purging of Phihisis, accompanied with night sweats and restlessness, Dr. Mathews, of Nantwich, has used it with maril and the various forms of dyspepsia, constipation, or diarrhees, coecy with a constipation, or diarrhees, coecy with a constipation, or diarrhees, coecy with a constipation of the visceral muscular coat, the Mist. Pepsinæ Co. c. Bismutho is a very valuable remedy. In the exist purging of Phihisis, accompanied with night sweats and restlessness, Dr. Mathews, of Nantwich, has used it with maril and the coefficient of the visceral muscular coat, the mathematical control of the visceral muscular coat, the Mist. Pepsinæ Co. c. Bismutho is a very valuable remedy. In the exist purging of Phihisis, accompanied with night sweats and restlessness, Dr. Mathews, of Nantwich, has used it with maril and the control of the visceral muscular coat, and the control of the visceral muscular coat, and the control of the visceral muscular coat, and the coat of the visceral muscular coat, and the v appreciable effect.

Price (in England) 10s. 6d. per pound.

Physicians will oblige, when ordering Mist. Pepsinæ Co. c. Bismutho, by writing Mist. Pepsinæ Co. (Hewlett') Packed in 10-oz., 22-oz., 40-oz., and 90-oz. Bottles.

LONDON MEDICAL RECORD REPORT.

MISTURA PEPSINÆ COMPOSITA CUM BISMUTHO.

"This combination of Messrs, Hewlett is one which has been extensively tested, and with good results. It is justly popular to profession as a very valuable and effective combination. It serves not only to improve apepsia, but to lessen the gastric pair and facilitate difficult and painful digestion, without setting up any evils of its own. It is a very good crutch for persons of weak st 120 learn 121 Learn 15th 1821. to lean on."-January 15th, 1881.

MANUFACTURING AND PHARMACEUTICAL CHEMISTS,

40, 41 & 42 CHARLOTTE STREET, GREAT EASTERN STREET, LONDON, L.

(LATE CREE CHURCH LANE).

ESTABLISHED 18:

BRGOYNE, BURBIDGES, CYRIAX & FARRIES,

16 COLEMAN STREET, LONDON, E.C.,

WHOLESALE & EXPORT DRUGGISTS,

MANUFACTURING PHARMACEUTICAL CHEMISTS,

MIDRIERS OF DRUGS AND DISTILLERS OF ESSENTIAL OILS.

PRIZE MEDAL, PARIS, 1861; SILVER MEDAL, PARIS, 1878.

Dis. Chemicals, and Pharmaceutical Preparations of the finest quality, and of standard excellence.

Pre Chemicals and Alcoholic Preparations for Analytical purposes and original research.

Carefully prepared in vacuo from the very best malted grain, this elegant preparation nimpaired; it will keep well in any climate, is of a light colour, and warranted to give satisfaction. We guarantee it free from glucose or deed sugar. As a substitute for Cod Liver Oil (which is now so dear) it has received considerable support from the medical profession.

This article has been one of our specialties for years, and one in which we have considerable experience nest that can be obtained. Owing to a large crop the price is very low this year.

The formula of the British Pharmacopoeia having proved most trictly adhered to it, hestowing particular care on this important preparation; and although noue but prime Spanish Ergot is used, the dditional precaution is taken to have every new lot thoroughly tested before heing used. Our preparation is guaranteed to be perfectly reliable, and physicians may depend upon it producing the specific effects of the drug, whenever such results are possible.

EU) NYMIN. (GREEN in Colour.) Prepared from the Young Bark. A powerful hepatic stimulant. Dose: Two grains,

This EXTRACT OF RED BARK. This Extract is well wortby of the attention of Pharmacists, on, containing as it does all the valuable alkaloids of the Cortex Cinchone Succirubra grown on the plantations of India, Ceylon, and Java, a ark well known to be rich in Quinine, &c., and superior, for pharmaceutical purposes, to the South American Barks.

This preparation is made from the finest Norwegian Cod Liver Oil, comfty per cent of oil, it will be found fully equal in efficiency to the undiluted oil, this result being attributable to the perfectly digestible form in hich it is presented. The flavour is so delicate as to be entirely free from offensiveness, and it is easily assimilated by even those whose igestive powers are unusually weak. It will keep well in any climate, is particularly suitable for ladies and children, and when brought under ne notice of the medical profession invariably receives their support. We put it up in pint and half-pint bottles and supply also in bnlk.

COIVALLARIA MAJALIS (Lily of the Valley). This Drug is now heing used as a substitute in inims) the Tincture acts as a stimulant to the heart; in large doses (four drachms) it is a tonic and sedative, lessering the frequency and acrossing the energy and regularity of its contractions. Unlike Digitalis, it is perfectly harmless, even in large quantities. Dose: Half to one aid ounce. We also have the Solid Extract in stock.

We devote the greatest care to the manufacture of this preparation, which is made in strict conformity with the engaining the favour of the medical profession.

We devote the greatest care to the manufacture of this preparation, which is made in strict conformity with the engaining the favour of the medical profession.

OUBLE ESSENCES FOR AERATED WATER MAKERS. These pre-parations as anufactured by ourselves have now been before the trade for several years, and we can with confidence assert that they have given the reatest satisfaction; we have overcome the great difficulty experienced in making a perfectly Soluble Essence without sacrificing the natural ingency, aroma, and strength of the ingredients employed; only the very finest materials are used in their manufacture, and we guarantee sem to be made with pure spirit of wine and to give perfectly bright solutions when added to syrup or water.

Carefully freed from all animal matter, stearine, etc.; very pale; does not deposit, and remains sweet for any length of time.

Price Lists, Samples, and Special Quotations on Application.

SOLE CONSIGNEES OF

JOBST'S PURE QUININE, SANTONINE, &c.

KAHLBAUM'S PURE ALCOHOLIC COMPOUNDS.

PARKE DAVIS & CO.'S AMERICAN PREPARATIONS.

MALTO PEPSYN.

DISIMETRIC MEDICAMENTS of PROFESSOR BURGGRAEVE.

DRUGS, CHEMICALS, PHARMACEUTICAL PREPARATIONS

Wholesale and Export Druggists and Manufacturing Chemits

ROAD, CITY LONDON.

Offer great advantages to Colonial Buyers and others. Shippers will do well to send for Price List.

Exclusive Agents for Dr. CARL L. JENSEN'S Crystal Pepsine, Beef Peptone, and Bellin Peptone with Rock Candy.

GABRIEL & TROKE, 82 CITY ROAD, LONDON, ED

TYPKE RZ MANUFACTUR

Crown Chemical Works, Mitcham Common, SURREY.

CANNON STREET. 110

Hypophosphorous Acid and Hypophosphites of Ammonia, Baryta, ro Lime, Manganese, Potash, Soda.

SPECIALITES Valerianic Actor and all valeriandes, Carpinator, Chemical for Sub-Oxide of Copper (fine red shade), Blue Verditer, Chemical for Pyrotechnical, Indiarubber, and all other purposes. Valerianic Acid and all Valerianates, Sulphate of Zinc (Pure Crystles,

Golden Sulphuret of Antimony, Medicinal and for Indiarubber.

SAMPLES, AND SPECIAL QUOTATIONS APPLICATIN. LIST, MONTHLY PRICE

HEATHFIELD'S Sedativus. Liquor Opii

By "BATTLEY'S PROCESS,"

Guaranteed precisely as made in the laboratory, and under the superintendence of the late Richard Battley.

Can be procured from the principal Patent Medicine Dealers and Wholesale

Druggists, or at 12 WILSON STREET, FINSBURY.

FINE HEALTHY CHILDREN!

Or MILK PRODUCER.

In Bottles, 2s. 9d, 4s. 6d. and 11s.

THIS preparation is the greatest boon ever invented for Mothers and Wet Nurses. Its use produces a copious flow of rich nourishing milk, which thoroughly satisfies the infant, prevents rickets, promotes easy dentition, and lays the foundation of a strong, healthy constitution. It also prevents debility in the mother whilst suckling, and is a capital remedy for acidity, flatulence, indigestion, &c. If taken during pregnancy it promotes perfect gestation, and effectively prevents decay of the teeth, so common to mothers during this period.

Commands a Ready Sale wherever introduced. Will keep good in any climate.

Chemists supplied with Handbills through any of the Wholesale Houses.

PREPARED BY

GELDART. PHARMACIST, LIVERPOOL,

Proprietor of the Celebrated PARISIAN STARCH GLAZE, and Sole Consignee for the United Kingdom of the worldrenowned BRAND'S AMERICAN BITTERS.

BENGER' PREPARATION

These have received the commendation of the ho medical press, and are very largely prescribl leading medical men at home and abroad. Chan consist of

- 1. LIQUOR PANCREATICUS (BENGER F. the preparation of Peptonised, or partially digested for at home. Bottles, 2/6, 4/6, and 8/6, with full digitic for use.
- 2. LIQUOR PEPTICUS. A Concentrated lustry Pepsine of great activity. Dose, one to two teast of with meals. Bottles, 3/, 5/6, and 10/6.
- 3. BENGER'S PEPTONISED BEEF JE L' A delicately flavoured, concentrated, and solidific B Tea, containing much of the fibrin in a soluble continuous Tins, 2/ each, will keep in any climate.
- 4. BENGER'S SELF-DIGESTIVE FOOD F Infants and Invalids, an improvement on Liebig's 00 when mixed with warm milk, both the food an mi undergo partial digestion; it can therefore be enjoy as retained when other foods disagree. Tins, 1/6, 2 at 5/ each.

BENGER'S PREPARATIONS may be obtained ious all the leading Wholesale Houses, or of the Manufactu 8

MOTTERSHEAD & CC

(S PAINE AND F. B. BENGER),

CHEMISTS PHARMACEUTICAL MANCHESTER.

IX'S TASTELESS PILLS.



BY ROYAL LETTERS PATENT,

Dated and Sealed April 13th, 1854.



rgeons and Chemists supplied with an excellent Aperient Pill (the formula for which will be true led), covered with a thin non-metallic film, rendering each Pill perfectly tasteless, at 1s. a gross, tree.

y formulæ dispensed and covered, and samples, with list of pills, from 500 different forms, which

mekt in stock, will be forwarded free on application.

ey were introduced to the medical profession by the present proprietors a quarter of a century ago, and the proposition of unsolicited testimonials have been received from the highest medical authorities, now used, and have been used for many years past, by the largest and best conducted hospitals and opensaries. Of course, a success like this has led to many imitations, and highly-varnished pills, made o resemble ours, have been introduced by some unscrupulous people. Many of these pills pass that the stomach unaltered, and a useful invention is thus likely to be brought into disrepute.

'e most impudent assertions are made by some of these people, who combine, in one incongruous whole,

be bles of druggists' sundrymen, retail druggists, soap-makers, and horse and cattle medicine vendors. Is make and sell nothing but pills, and have testimonials from regular customers, residing in China, and every part of the civilised world, as well as from friends in almost every town and village in the kydom; and our trade, which is constantly increasing, is perhaps four or five times as large as all the rip of our copyists' put together.

The following are some of our Prices FOR CHEMISTS ONLY:—

We s ngly recommend our Aperient Pills as a good general saleable Pill. These, with the Pharmacopoeia Pills quoted who we sent out to every part of the United Kingdom in half-pound parcels, package, postage, and carriage free on a day as the order is received; and, to avoid booking and other expenses, 1d. in the Shilling will be allowed if Stamps or P.O.O. are remitted with order.

Our ls can also be obtained from any Wholesale Druggist. In ordering, please specify "Cox's Tasteless Pills."

QUOTATIONS FOR OTHER PILLS ON APPLICATION.

(a. ir Pil. Aperiens et Cathartic.		Prices per Pound in Four or Five Grain Pills.		No. in Catalogue.	Pills of the British Pharmacopæia.	Prices per Pound in Four or Five Grain Pills.	
		Coated. U	Incoated.			Coated.	Uncoated.
& 2 & 4 193 332		6/ 6/ 6/ 5/	5 5 5 4	122 66 24 30 62 71 92 77	Pil. Asafœtidæ Co. " Cambog. Co. " Coloe. Co. " et Hyos. " Ferri Carb. " Hydrarg. " Subchlor. Co. " Ipecac. c. Scillæ	6/6 6/ 16/ 13/ 5/ 5/ 6/6	5/6 5/ 15/ 12/ 4/ 4/ 5/6
6 8 9 10 7	Pil. Aloes, Barb. """>""", et Asafœtidæ. """>""", et Ferri """, et Myrrh. """, Soc.	6/ 5/ 5/ 12/ 6/6	5/ 4/ 4/ 11/ 5/6	99 104 119 321 115	,, Plumbi c. Opio ,, Rhei Co. ,, Saponis Co. ,, Scammon. Co.	12/ 7/ 12/ 22/ 5/	11/ 6/ 11/ 21/ 4/

The Registrar of Trade Marks (after giving the usual public notice, prescribed by Parliament, to allow opposition) has granted us the above "Trade Mark," thus officially recognising us as the "Original aker) Tasteless Pills," and no Pills will be sent out without this Mark on all bottles or packages.



ARTHUR H. COX & CO.,

TASTELESS PILL MANUFACTURERS,

MARTIN'S PLACE, BRIGHTON



Isale

t Chi

rhue

and

Mana.

T. & H. SMITH & CO.,

CHEMICAL MANUFACTURERS.

OFFER

MORPHIÆ HYDROCHLOR. In powder and crystals.

MORPHIÆ ACETAS.

MORPHIÆ TARTRAS.

Introduced by them and specially prepared for hypodermic treatment.

CODEIA.

APOMORPHIÆ MUR.

PODOPHYLLIN.

JALAPINE.

SALICINE.

CHLOROFORM PURE.

CHLOROFORM METH.

Their brand has been for many years known to the Wholesale Trade as absolutely pure.

POTASSII BROMID.

RESINA SCAMMONII, B.P.

GINGERINE.

CAPSICINE.

CAMPHOR MONOBROM.

ALKALOIDS, &c., &c.

EDINBURGH Address ---

21 DUKE STREET.

LONDON Address-

12 WORSHIP STREET, E.C.

TWO SPECIAL FIRST AWARDS, SYDNEY EXHIBITION, 1879-1881 FIRST AWARDS. WITH GOLD MEDAL FOR ESPECIAL EXCELLETORA MELBOURNE EXHIBITION, 1880-1881.

THOMAS WHIFFEN, TTERSEA, LONDINGE dinir

MANUFACTURER

QUININE SULPHATE.

White and Unbleached, and all other important Salts of Quinine; as also of

QUINIDINE, CINCHONIDINE, AND CINCHONING

QUINETUM. The Alkaloids of India Cinchona Succirubra Bark.

QUINETUM SULPHATES.

IQUID EXTRACT OF CINCHONA BAIL

SALICINE. The active principle of Willow Bark.

STRYCHNINE (HULLE'S).

The Advertiser is the PROPRIETOR and INVENTOR of this well-known Brand.

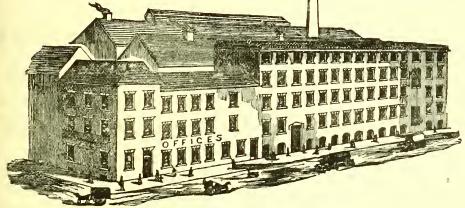
WYLEYS & CO., COVENTRY,

WIEYS, WALKER & CO., 223 Upper Thames Street, LONDON, E.C.,

Wolesale and Export Druggists

and Drug Grinders,

1790.



LABORATORIES AND DRUG MILLS AT COVENTRY.

MANUFACTURERS OF

umicals & Pharmaceutical Preparations.

OL. MENTH. PIP. RECT. (Wyleys).

Also il absolutely pure, and Soluble in Rectified Spirit. Free from the harsh odour imparted by the oils of Erigeron Canadense and Mentha arvensis, both of which are invariably present in the American brands.

CERATIN ALB. (Wyleys).—CERATIN FLAV. (Wyleys).

peria purified semi-solid hydrocarbons. Inodorous and not liable to oxidation. Both forms when melted give perfectly dear s, which readily solidify to their original consistence. Our Ceratin alb. is so perfectly purified that in its liquid, as well as in its solid, state it is absolutely colourless.

OL. RICINI ELECT. (Wyleys).

lourless and Tasteless Oil prepared from Decorticated Seeds. This oil, from never having been subjected to any chemical process of bleaching, will be found thoroughly active and reliable.

Chi oquinine.—The bleached crystallizable alkaloids of East Indian Red Bark (Cinchona succirubra).

Feri et Chinoquinice Cit.—A "Scale" preparation containing 25% of mixed alkaloid of Red Bark.

Ol. orrhuge et Calcis Hypophosph.—A perfect emulsion, and of which we were the earliest English Makers.

Che: an and its Preparations.—We were the first importers of this drug and the first introducers of its preparations—Liquid Extract, Syrup, and Essential Oil.

C/SCARA SAGRADA — CONVALLARIA — VERBASCUM — GALIUM — AND ALL NEW REMEDIES.

COATED PILLS.

We arctaking on a large scale, and shall be pleased to forward List containing Recipes for every description of these, or to prepare special forms from customers' recipes.

EXPORT DEPARTMENT.

Msrs. W. & Co. are prepared to execute orders for Export, giving every attention to packing and the equir ents of the Market for which goods are intended.

Fing direct representatives in Canada, Rio Janeiro, and Valparaiso, they are in specially good position with refere to the North and South American Continents.

8'ANISH PRICE LISTS PUBLISHED QUARTERLY.

YISTS. W. & Co. will be happy to forward English and Spanish Price Lists, Book of Order Forms, and Pill List, any Chemist in the World on receipt of Business Card.

CY

PE IO:

DR. LALOR'S PHOSPHODYN:

(TRADE MARK-PHOSPHODYNE.)

TWENTY YEARS' SUCCESSFUL PUBLIC TEST, and THOUSANDS OF TESTIMONIALS from all parts of the World, establish

PHOSPHODYNE

The only Safe, Prompt, Reliable, and Never-failing Phosphoric Remedy for Over-worked Brain, Sleeplessness, Harassing Dreams, Hurry, Woy, a Waste, Anxiety, Excitement of the Higher Nervous Centres, Wasting Diseases, Nervous Prostration, Stomach, Liver, and Kidney Complaints, Imporerished Blood, Premature Decay, and all morbid conditions of the system dependent upon the deficiency of the Vital Forces.

DR. LALOR'S PHOSPHODYNE

Will keep in any Climate, and is therefore specially adapted for SHIPPING, and wherever introduced COMMANDS A LARGE SALE. DR. LOI PHOSPHODYNE, from its immediate effects in cases of Exhaustion, Lassitude, Want of Stamina, Nervous Debility, and Malarial Disease ATTAINED A VERY LARGE SALE in Africa, China, East and West Indies, the Colonies, Turkey, Asia, and other Hot Climates.

Sold in Bottles, at 4s. 6d. and 11s., by all Wholesale and Retail Medicine Vendors throughout the World. Manufactured on at

PHOSPHODYNE LABORATORY,

By Dr. R. D. LALOR, London, N.W. (The sole Proprietor and Originator of Phosphodyne.)

A supply of suitable Printed Matter in any Language for distribution, also attractive Show Curds, will be sent for Enclosure to any London use receipt of a Letter of Advice from Agents.



BURGESS, WILLOWS & FRANCIS, IN WHOLESALE & EXPORT DRUGGISTER

AND AND

MANUFACTURING PHARMACEUTICAL CHEMISTS,

101 HIGH HOLBORN, LONDON

Price Lists sent on application. Special quotations given the Shipping Orders.

SIR JAMES MURRAY'S

PURE FLUID MAGNESI

The ORIGINAL Article, as prepared by the Inventor, Sir James Murray, M.,
For over 60 years in use as an excellent remedy in cases of

ACIDITY, INDIGESTION, HEARTBURN, GRAVEL, AND GO

When mixed with his ACIDULATED LEMON SYRUP, it forms a pleasat Effervescing Aperient, especially suitable for Ladies and Children.

Sold by all respectable Chemists, in LARGE-SIZED Bottles (the 1s. size containing rand Double the quantity usually sold at that price), at 1/, 2/6, and 3/6 each.

SIR JAMES MURRAY'S

FLUID CAMPHOI

Is a valuable remedy in cases of Sleeplessness and Nervous Depression, and in general as a mild Sedative and Antispasmodic.

SIR JAMES MURRAY & SON, Chemical Works, Temple Street, Duling BARCLAY & SONS, 95 Farringdon Street, London.

he Chemische Fabrik auf Actien, vormals E. Schering, Berlin,

MANUFACTURERS

AC	. CARBOLIC or
F	, CARBOLIC or mol Absolut
AC	, GALLIC
	PYROGALLIC
1	SALICYLIC (Kolbe's)
,	
,	TANNIC
	,,
,	
CE.	OIDINE (Patent)
CH	RAL HYDRATE
CH	RAL HYDRATE (Lieb-
r	h's)
CH	ROFORM (ex Liebreich's
	oral)
CR	ON CHLORAL
at:	ERINE
AT.	PERINE
	XE
101	FORM
PO	SS BROMIDE
	CAUSTIC
	CYANIDE
	PERMANGANATE
	IODIDE
-	
BIL	ER, NITRATE
	, CAUSTIC
801	SALICYLATE, and
	- C 3: 3 ·

PARTICULARLY OF
Fine white hard crystals
Almost white needles
Bi-sublimed, white, bulky
White, powder, crystallised, and
dialysed
Lightest crystals
Powder and granulated
10wder and grandiated
Gelatine plates
White cake and crystal
· ·
Transparent rhomboidals (facsimile of Dr. Liebreich's)
,
Schering's original label
Shiny crystalline scales. (Powder form most objectionable)
S.G. 1260, double distilled, bril-
liantly white, odourless; also
lower S.G. and qualities
Resublimed, fine scales
Dry yellow scales
Fine white dry regular crystals
Towns and office white
Lump and stick, white
Ditto ditto
Large and small crystals
Fine white dry regular crystals
Fine large anystels
Fine large crystals

Free from Cresylic Acid. Watery solution will not show greasy spots floating on top.
Freely and entirely soluble in alcohol or water.
Ditto ditto ditto.
Dissolves colourless in water or alcohol; purest for medicine.
Dissolves almost colourless in water, alcohol, and ether.
Dissolves freely in water, alcohol, and ether.
Purest Pyroxylin; inexplosive.
See Liebreich's, below.
Will not decompose by age.
Will have decomposed by ago.
Free from foreign chlorides. Will leave no odour on evaporation.
Free from foreign chlorides.
Free from lime, chlorides, metals; will stand severest chemical tests.
Purest.
Purest, by medical reports.
Perfectly free from iodide, and the most free from chloride.
Commercially pure, and pure by alcohol.
30°/ _o , 45°/ _o , 60°/ _o , and 95°/ _o .
Chemically pure.
Apply Barytic and other tests. This will never change colour. 63 to 63% of pure silver.
20 00 20 2 10 1

FINZELBERG, of Andernach-on-Rhine, MANUFACTURER OF

ERCTINE, pure Dialysed ... Brown colloid, purified by Dialysis FEFUM OXYD. (5% Dialysed)

PEFIN PORCI (100%) ...

ot r Salicylates

White powder and crystals ...

Transparent brown liquid, purified by Dialysis

White, sweet, odourless powder ...

Free from all saline matter present in the ordinary Ergotine and extracts.

Chemically pure, and pure by alcohol. Freely soluble in water and alcohol.

Free from all saline matter. Diluted by ten times its weight of water, will stand the test of Nitrate of Silver.

Freely soluble in water, not hygroscopic, and will not deteriorate; will dissolve (by Wittstein's test) 100 parts of white of egg and 250 parts of fibrine.

SCHERINGS

ARTIFICIAL QUININE SUBSTITUTE.

SOLE WHOLESALE AGENTS

For Quotations, &c., apply to Wholesale and Export Drug and Chemical Houses.

RICHARD TWEMLOV

Pharmacopœia, Throat Hospital, Proprietar, SPECIALITY LOZENGES.

SOMNICINE. AND CHLORODYNE MANUFACTURE? 91 UPPER BROOK STREET, MANCHESTER.

N.B.—As Specialities particularly worthy of notice may be mentioned the following:—Chlorodyne, Bouquet, Broncia Cough (similar to Brown's Troches), Children's Cough Lozenges, &c., Pink Worm Tablets (a set meat) the most effectual Worm Medicine of its kind extant.

Price Lists and Samples free on application.

Are made of the best materials; perfectly protected; entirely and quickly solle coated while soft; not subjected to the injurious effects of heat in the process manufacture. The mass is worked to the highest possible degree of unrintermixture, and subdivided with scrupulous exactness. The coating is an ar

tasteless, and odourless compound, which is so transparent, colourless, and thin, that the distinctive colour of eacpl is revealed through the coat. No sub-coating is used. The solubility of the coating is not impaired by age. Although the coat and officinal pills, as well as any others ordered by the Medical Profession, can be furnished in this form. They compound the coating is not impaired by age. implicitly relied upon in every respect. The coating, while

thoroughly protecting the pill, will not be found to in any way interfere with the action of the drug, and those who have found sugar or chalk-coated pills objectionable, owing

to the liability of the coating becoming insoluble by age, will find our coating to dissolve as readily after many years as when first prepared. It, moreover, does not form a hard tough shell, as is the case with the ordinary gelatine coating. We claim and believe our Coated Pills to be nearer than any similar goods that have been offered, and guarantee the pills to be as quickly: any uncoated pills that can be made.

ALLEN & HANBURYS, Plough Court, Lombard Street, LONDON

IQUOR BISMUTHI SCHACHT

Dose, 3j., diluted.

Great pains are taken to ensure the absolute purity of this preparation. It is not only freed from the ordinary contaminations of the metal, such as copper, arsenic, silver, &c., but that which so frequently causes an offensive odour to pervade the persons of those taking the ordinary preparations of Bismuth, namely Tellurium, is also most carefully eliminated.

SYRUPUS CINCHONÆ ALCOHOLICUS, SCHACHT.

Bark minus the woody fibre. Dose, 10 to 30 drops, diluted.

LIOUOR RHAMNI FRANGULÆ, GILES.

A real aperient, mild and constant. Dose, 3ij. to 3iv., diluted.

SYRUPUS SENNÆ AROMATICUS, GILES.

Made by cold maceration—does not gripe. Dose, 3j. to 3ij.

EXTRACTUM CINCHONÆ LIQUIDUM, GILES.

Exhausted entirely with cold water, and prepared by a process specially devised to avoid the changes inseparable from prolonged evaporation.

Dose, 10 to 20 drops, diluted.

The above Preparations are manufactured by Mr. Schacht himself in the laboratory of the firm.

GILES, SCHACHT 52 Royal York Crescent, Clifton;

And can be procured from all Wholesale Druggists in London and the Provinces.

SYMES & C



Pharmaceutical

LIVERPOOL.

DRUG MERCHAN'S

IMPORTERS OF

BRAZILIAN DRUG

Araroba, Caroba, Tayuya, Coca, Baycuru, Jaborandi, Quebracho, Guaco, Tonquin Beans, belon

AMERICAN & CONTINENTAL SPECIALITIE

MANUFACTURERS OF

Now largely replacing the Mitcham Oil. 21/11

LAC BISMUTHI ET CERII.

HYDROBROMIC SYRUP OF HYPOPHOSPHITES,

London Depôt-7 SNOW HILL.

si-ounce Bottles, one size only, Half-a-crown. Price 24s. dozen, subject to usual Patent Medicine Discount.

THE NEW REMEDY FOR VEURALGIA, TOOTHACHE, NERVOUS AND SICK HEADACHE.

Prepared only by

LARKE, BLEASDALE, BELL & CO.,

ENGLAND. YORK.

nd sold by all Wholesale Druggists and Patent Medicine Vendors everywhere.

Frie per gross, £11 8s., box free, cash with order, carriage paid. Export cases charged 5s. each, delivered f.o.b.

Ren tance in full must accompany orders. For less quantity than 1 gross buyers will please write their Patent Medicine House or Wholesale Druggist.

PLIAL QUOTATIONS FOR PARCELS OF FIVE GROSS AND TWENTY GROSS.

NE DOSE of Tikheel will in fifteen minutes generally remove the most severe form of Neuralgia, me ttle will effect a cure.

ikheel is a SAFE MEDICINE, thus differing from most advertised remedies.

he word "Tikheel" is stamped on every bottle, the label is pale buff colour, with the Trade Mark the pack of a watch) in pale yellow underlying the printed matter. Any infringements of label or mitions of the word "Tikheel" will be rigorously proceeded against, being protected by the Trade Mark

The roprietors respectfully request perusal of the following genuine Testimonials, being a selection out of a very large number which are daily received:

Theev. A. ORLANDO CHERRINGTON, Vicar of Tividale, Tipton, writes, March 27, 1883.

6 tlemen,—Your valuable preparation "Tikheel" has been effectual in our 3 three cases of Neuralgia in my parish, one of two years' standing, in the extraction of teeth, &c., had no effect, various other remedies had been id in vain; another of a very excruciating nature; and my own, which as been of frequent occurrence for some time.

From Mr. THOMAS CROSS.
The School, Poppleton, York. The School, Poppleton, York.

It Sirs,—I have suffered a long time from Neuralgia, which periodically acks a decayed tooth. Lately I have tried "Tikheel," which, after the tri dose, entirely removed the pain, and now at an interval of two month I have only had one very slight attack. I have found local application, no use whatever in the past, and remain, yours faithfully,

T lesses. Bleasdale & Co., Chemists, York. THOS. CROSS.

The liter of the "WHARFEDALE AND AIREDALE OBSERVER" sends the following unsolicited:—

Glemen,—Your "Tikheel" is indeed a most remarkable medicine. I am tone who places much faith in the efficacy of the numerous socialed medics for Neuralgia, and I was therefore not very sanguine of gettin elief from your "Tikheel," but having suffered severely for several weeks ast from Neuralgia, I was induced to make a trial of the medicine. In a criter of an hour after taking the first dose the excruciating pain abate and I have had no return of it since. I am certain this medicine only raires to be generally known in order to be widely used and appreciated.

From Mr. Councillor RAWLING, York.

Gentlemen.—I have great pleasure in giving testimony to the great benefit to be derived from your "Tikbeel." I was very bad with Tic, but a dose of "Tikheel" cured me in half-an-hour. I cannot speak too highly of it.—Yours truly, FRANCIS RAWLING (Town Councillor).

From Mr. CHAS. HAIGH, Skep Maker, Buresfield Road, Huddersfield.

Gentlemen.—My wife having been a very great sufferer for some time from Tic and Neuralgia, and having tried a good many medicines without receiving any benefit, was induced by Mr. Bygott, Chemist, to try a bottle of "Tikheel." Strange to say, after taking three doses of the medicine she was completely cured, and has not had the least pain since.

You are at liberty to make any use of this testimonial you think proper, as I think every one should know there is such a certain and rapid cure for Neuralgia.

Neuralgia.

From Mr. THOS. HORROCKS, Temperance Lecturer, Darwen.

From Mr. THOS. HORROUKS, Temperance Lecturer, Datwen,

10 Melita Terrace, Darwen, February 1, 1883,
Gentlemen,—My daugbter bas been troubled very much with Neuralgia
for the last six months, and having seen your advertisement in the paper,
I purchased a bottle of your "Tikheel." I am glad to say the first dose
gave her immediate relief, and after taking one small bottle, she was completely cured, and has not had an attack since.—Believe me, Gentlemen,
yours gratefully, THOS. HORROCKS, Temperance Lecturer,
Western Temperance League.

Macara Clarka, Bleasdale, Bell & Co., York.

Messrs. Clarke, Bleasdale, Bell & Co., York.

ESTABLISHED UPWARDS OF CENTURY.

BUTLER, McCULI



COVENT GARDEN MARKET, LONDON.

Wholesale Importers and Exporters of all kinds of

MEDICINAL AND CULINARY HERBS, ROOTS, BARKS, SEEDS, AND DISTILLERS OF PERFUMED & MEDICINAL PREPARATIONS. IMPORTERS OF LEECHES.

THE GREATEST CARE & JUDGMENT USED IN THE SELECTION & PACKING OF INDENTS.

SPECIALITIES.— Herbs (Culinary and Medicinal) packed in Patent Cardboard Brest Medicinal) Which can be opened for examination of conten's and closed up again without detriment to the package.

LISTS ON APPLICATION.

THE BEST TASTELESS MEDIUM TO TAKE NAUSEOUS MEDICINE.

They are made in Six Sizes :-No. 1 contains about 12 drops (8 min.) No. 3 contains about 35 drops (30 min.) 60

No. 6 contains about 80 drops (65 m)

60 drops equal to about one teaspoonfi

THE GREAT ADVANTAGES OF CHRISTIANI'S CAPSULES ARE—
That they are PERFECTLY FLEXIBLE, and therefore readily accommodate themselves to the smallest throat. That they are PLEASANTLY FLA
and PALATABLE alike to adults and children. That they are PERFECTLY SOLUBLE, and have no DELETERIOUS influence on the stomach. That
LARGER QUANTITY of Castor Oil, Cod-liver Oil, or other nauseous medicine can be taken in one Capsule at a time than can be done by the
any other capsules sold. A Capsule No. 6 can be swallowed with greatest ease, the flexibility being extraordinary. Especially recommended for
COD-LIVER and CASTOR OIL, Santal Oil, Balsam Copaiba, Turpentine, Quinine, Charcoal, &c.

Capsules filled with any Oil according to instructions.

EMULSIO SANTAL .KALINA. (P. N. TAYLOR

It is found that this new remedy in this partially digested form is more easily assimilated and no nauscating effect produced on the most stomach. They impart absolutely no taste in the mouth or odour to the breath after being taken, an advantage possessed by no other capsule additionable.

Though containing water the capsule is perfectly soluble.

Queen Victoria Street, London, E

Notice.



Notice Trade

ATKINSON &

Established by 90 years' experience as a safe and effective Medicine.

Sold universally by Chemists and Patent Medicine Dealers WHOLESALE AND EXPORT ORDERS SUPPLIED FROM THE MANUFACTO Y

11 RUSSELL STREET, DOWNING STREET, MANCHESTER.

APPLICATION BILLS ON SHOW CARDS AND

"FOR THE BLOOD THE LIFE."

WORLD

RESTORER.

(Registered Trade Mark-"BLOOD MIXTURE.")

The Celebrated CURE FOR Scrofula, Scurvy, Blood and Skin Diseases, and Sores of all k is Wholesale of all the Wholesale Houses, at 24s. and 108s. per dozen, less the usual discount.

Sole Proprietors, THE LINCOLN & MIDLAND COUNTIES' DRUG COMPANY, LINCON. Counter Bills and Posters, with Name and Address, also Show Cards, on application. Printed matter supplied in any Language for Foreign Agr. CAUTION.—The Proprietors will take immediate proceedings against all persons pirating their Trade Mark, "Blood Mixture," Labels, Wrappe So.,

or Advertisements, or in any way infringing their rights.

Dr. J. COLLIS **BROWNE'S**

IMPORTANT CAUTIONS

In Lord Chancellor SELBORNE, Vice-Chancellor Sir W. PAGE WOOD, and the LORDS JUSTICES OF APPEAL.

ICE-CHANCELLOR SIR W. PAGE WOOD, by whom the suit in Chancery was first heard, stated in his judgment that 'Di. Collis Browne was undoubtedly the Inventor of Chlorodyne, that the whole story of the Defendant Freeman was as dil ately untrue as the falsehood he had deposed to with reference to the use of his Chlorodyne in the Hospital.'

he VICE-CHANCELLOR also stated, 'that Chlorodyne was a fanciful name, and had application been made sooner, the

would have given Dr. Browne protection.'
ORD CHANCELLOR SELBORNE coincided with the judgment of the Vice-Chancellor upon this point, and stated 'that is plication been made at a proper time and place, the Court would have found means to restrain the Defendant from misrepresting the decision of the Vice-Chancellor.'

ORD JUSTICE JAMES, on appeal, stated in his judgment, 'that the Defendant Freeman had made a deliberate misrepresent on of the decision of Vice-Chancellor Wood.'

was proved in Court, on affidavit by Mrs. Forbes, of Paris, that the testimonial published in the *Times*, November 14th, 186 peaking of the great efficacy of Chlorodyne in Cholera, referred to Dr. J. Collis Browne's Chlorodyne, and that she never use my other, that she had written to the Defendant Freeman to that effect; notwithstanding which notice the Defendant pub les the said testimonial as referring to his medicine.

he Editor of the Medical Times, in his report on Chlorodyne, January 13th, 1866, gives information that the Chlorodyne med to was the medicine introduced by a retired Army Medical Officer, which was Dr. J. Collis Browne; still this is published

by t Defendant as testimony to his medicine

umerous affidavits from eminent Physicians and others were produced in Court, stating that Dr. J. Collis Browne was the inter of Chlorodyne, and that when prescribing they mean no other.

he Defendant himself publishes that his compound is in effect and composition quite different to any other preparation; wereless he assumes the name, testimonials, &c., of Chlorodyne.

chnicalities in law prevent that protection which the public should justly have against such a course of conduct. It is now incorporate on all who purchase Chlorodyne to see that the name, 'Dr. J. Collis Browne's Chlorodyne,' is engraved on the for ment Stamp, as it is not sold otherwise. All other compounds under the name of Chlorodyne are spurious. All attempts #a ysis have failed; hence the statement that the constituents of Chlorodyne are known is a misrepresentation.

FURTHER IMPORTANT NOTICE.

The subjoined list of eminent Firms concur with Vice-Chancellor Sir W. Page Wood's statement in Court, that Dr. Collis Browne was undoubtedly the Inventor of Chlorodyne; and that when Chlorodyne, or the Original Chlorodyne, is ordered, they invariably supply Dr. J. Collis Browne's:



OY GENUINE

0	
Apothecaries' Hall,	London
Allen, Hanbury & Co.,	11
Baiss Brothers,	**
Banks & Richards,	Birmingham
Barron, Harvey & Co.,	London
Bell, John, & Co.,	"
Bourne & Taylor,	21
Corbyn & Co.,	"
Cox & Gould,	"
Curling & Co.,	
Curtis & Co.,	"
Davy, M'Murdo & Co.,	"
Dobbin, W., & Co.,	Belfast
Drew, Barron & Co.,	London
Drew, B., & Alexander,	11
Dunn & Company,	-
Edwards, W.,	"
Evans, Gadd & Co.,	Exeter
Evans, Lescher & Evans	
Ferris & Co.,	
	Bristol
Foulger, S., & Son,	London

a, eacy mitaritory suppr	, 21. 0. 0.
Frazer & Green.	Glasgow
Gale & Co.,	London
Giles & Son,	Clifton
Goulding, Messrs.	Cork
Gratton & Co.,	Belfast
Grimwade, Ridley,	London
Grindley & Son.	Chester
Hearon, Squire & Francis,	London
Hodgkinson, Tonge & Stead	1, ,,
Hopkins & Williams,	,,,
Hovenden, R., & Sons,	22
Hunt & Co.,	Exeter
Hunt, A., & Co.,	>>
Johnson, J. H. & S.,	Liverpool
Langton, W., & Co.,	Loudon
Lynch & Co.,	11
Mander, Weaver, Wolve	erhampton
Marsden & Sons,	London
Maw & Son,	11
Meggeson & Co	,,
Mackay, John, & Co.,	Edinburgh

Morson, T., & Son,	London
Newbery & Sons,	London
Oldham, G., & Co.,	Dublin
Parsons & Richardson.	Leicester
Peake, Allen & Co.,	Dublin
Raimes & Co.,	Liverpool
Raimes & Co.,	York
Raimes, Blanshards & Co	Edinburgh
Sang & Barker.	.,
Sanger, J., & Sons,	London
Sim, James, & Co.,	Aberdeeu
Smeeton, W.,	Leeds
	Birmingham
Sutton, W., & Co.,	London
Tomlinson, Hayward &	Co., Lincoln
Treacher, Hodgkinson &	
Westrup, J. B.,	Kensington
Westwood & Hopkins,	Lincoln
Woolley, James,	Manchester
Wyleys & Brown,	Coventry
Yates & Co.,	Londou

fter these public statements in a Court of Equity, and subsequent confirmation by the trade at large, no Chemist ean withously use or sell any other compound for Chlorodyne without committing a breach of faith, unjust to patient and physician. The lue of the remedy alone creates the great demand.

old in Bottles-1s. 11d., 2s. 9d., 4s. 6d., and 11s. Usual Discount to the Profession.

SOLE MANUFACTURER,

DAVENPORT, Pharmaceutist.

83 GREAT RUSSELL STREET, BLOOMSBURY SQUARE, LONDON.

RELIEF FROM COUGH IN TEN MINUTES.

HAYMAN'S



Is the most certain and SPEEDY REMEDY for all DISORDERS of the CHES a LUNGS. In Asthma and Consumption, Bronchitis, Coughs, Influenza, Difficulty of Breathing, State Blood, Whooping Cough, Hoarseness, Loss of Voice, &c., this Balsam gives instantaneous relief and properly persevered with, scarcely ever fails to effect a rapid cure. It has now been tried for man can have an established reputation, and many thousands have been benefited by its use.

IT HAS A MOST PLEASANT TASTE.

IMPORTANT TESTIMONIAL,—"Amport Firs, Andover, May 29, 1869.—Sir he for some years had your Balsam of Horehound for Mrs. B. Webster, and intended writing to tell y he much benefit she has derived. She was considered consumptive, but the Balsam has quite reston had she is now quite strong. I have recommended you dozens of customers, and all have been pleas with the Jan, yours, &c., H. B. WEBSTER.

Mr. HORROX, Chemist, Mildenhall, writes to say:—"One of my customers says your Balsam in the large the large the large that the property of the large the large that the property of the large that the pro

IN THE NURSERY it is invaluable, as children are fond of it and take it eagerly. Immediately it is taken conghing ceases, restles as gone, and refreshing sleep ensues. No lady who has once tried it would ever afterwards be without it.

Prepared only by A. HAYMAN, Chemist, Neath; and sold by all Chemists. Price 1s. 13d. and 2s. 9d. per Bottle, WHOLESALE AGENTS.—W. Sutton & Co.; Barclay & Sons; Newbery & Sons; Hovenden & Sons, 95 City Road, London; at the Chemists of Co., Melbourne, Elliott Brothers, Sydney and Brisbane, Anstralia; Kempthorne, Prosser & Co., Auckland and Dunedin, New Za Smith. Stanistreet & Co., Calcutta.

PRITCHARD'S

Are excellent for Children from Three Months to Twelve Years, when cross, feverish, or restless.

Are recommended as an Antibilious Aperient for Adults, removing Nervous and Bilious Headache, &c.

29 Harper Street, Stretford, Manchester,

Mr. J. PRITCHARD.

Dear Sir,—I wish to inform you that my child has been very ill from worms and severe fits; the doctor who attended him said it was impossible for him to recover; nothing could save him. But I was induced to try your Teething Powders, and am happy to say he is now quite well; the your Teething rowders, and an improvement of the first have left him, and he is a bonnie boy.

Yours truly, THOMAS INGHAM.

PREPARED ONLY BY THE SOLE PROPRIETOR,

J. PRITCHARD, Chemist, 67 Chorlton Road, Manchester; And CHEADLE, near MANCHESTER.

A Packet will be sent (post free) for Fourteen Stamps.—Sold by all Chemists.

DENOUAL'S

THE BEST AND CHEAPEST.

Attention is called to the following Articles:-Trade Price. 12/ & 9/ Peruvian Mixture Capsules Matico Oil and Copaiba Capsules
Santal Oil Capsules (36 in each box)
Cubeb Oil and Copaiba Capsules Copaiba, Cubeb Oil, and Santal Oil Capsules

Copaiba Capsules, No. 0.

No. 1. 99 No. 2... Copalba, Alum and Cubebs Compound Ferruginous Male Fern Oil Cod Liver Oil.... IRL Castor Oil Castor Oil
Denonal's Injection (to ensure a radical cure in two days). 18/ ALL DRUGS WARRANTED TO BE GENUINE.

Jules Denoual, Carlton House, 4 New Cross Rd., London 5.

The Original Preparation, as approved by the Medical Profession on account of its known composition and uniform strength. 1 Tof all the

Retail at 132d., 2s. 9d., and 4s. 6d. Dispensing, 4 ozs., 4s. 6d., and 10 ozs. stamped.

HLORODYN

As originally introduced by A. P. Towle, and free from stamp duty for dispensing.

4 ozs., 4s.; ½ lb., 5s. 6d.; 1 lb., 10s.

In 1, 2, and 4 lb. Bottles, at 3s. per lb., and 6d. and 1s. Boxes. Foiled, Lined and neatly got up for the counter, 4s. 6d. and 9s. per d

TOWLE, Chlorodyne Manufacturer 75 BACK PICCADILLY, MANCHESTER.

Bills with name on application with instructions for forwarding.

Als

PRECIPITATED CHALK.

Guaranteed Finest and Purest Quality.

MANUFACTURED BY LEVERMORE BROTHERS,

B CULLUM STREET, LONDON.

the largest Manufacturers are prepared to execute orders on the shortest notice.

Pure Chemicals of every description for Technical, Manufacturing, and Scientific Purposes.

ACID ACETIC FORT, 1.040.

Prme Quality and Guaranteed from Soda.

MANUFACTURED BY DUNN & COMPY.

(LATE OF PRINCES SQUARE, FINSBURY),

MANUFACTURING CHEMISTS,

WEST HAM, E.

FORSTER & GREGORY,

MANUFACTURING CHEMISTS,

LONESOME CHEMICAL WORKS, STREATHAM COMMON, S.W.,

Yak's of all the Hypophosphites; also of Valerianic Acid and all Valerianates, Bisulphide of Parbon, Chloride of Sulphur, Chlorate of Baryta, and Chemicals for Pyrotechnical and all other purposes.

All Coal Tar Products for the Manufacture of Aniline Dyes.

Refiers of Sulphur in Rock or Roll, Ground Sulphur, Washed Sulphur, Milk of Sulphur, Precipitated Sulphur. Guaranteed Pure.

MABLISHED 1852.]

SAMPLES AND QUOTATIONS ON APPLICATION.

[ESTABLISHED 1852.

NEWTON, KEATES & CO.,

King Street, and 3 Cooper's Row, Liverpool,

MAKERS OF THE PUREST FORM OF

PHOSPHATE OF SODA,

PHOSPHORIC ACID, &c.,

Also Chemical Manure Manufacturers.

Eseri.

Curai

Caffei

* Pilociai

t Hvoson

Their CHIEF ADVANTAGES are :-

Ready for IMMEDIATE use.

Definite and uniform strength.

Non-liability to change or to become inert.

They contain neither Acids nor Alcohol, and consequently are not liable to form abscesses or cause pain.

SOUTIONS FOR

128 PRESCOTR

Extracts from a few recent Dr. JORDAN, 68 Hercules Buildings, Lambeth, 8.E, Sept 20, 1841.

I have been using your solutions constantly in practice in Edinburgh; but now that I have come to London I find great difficulty in obtaining these. If you have any London agents, please give their name and address. I will thank you to send per return Extracts from a few recent Testimonials. Letters, &c.

Dr. DIXEY, Great Malvern, December 14, 1881.

Kindly send me a case of your "Permaneut" solution of Ergotine as or am immensely pleased with the preparation, and always use it in preference preparations of Ergotine, finding it more reliable.

Dr. CRESWELL RICH, Pathologist to the Royal Infirmary, and M can Officer, H.M. Post Office, Liverpool.

Atropine.

Chloral,

Strychnine.

Apomorphia,

Nitri'e Ayml,

etc.

In Poeket Cases, containing Six Sec

at 2s. per Case, or 20s. per len

* Pilocarpine, 3/ per ease.

† Hyoseyamine, 3/6 per ea

Your Morphia Solution is an admirable preparation. I used it last even; telderly lady patient, who has a very delicate and casily irritated skin at pleased to find this morning that it had set up less viriation than any other of time that I have tried in her case. Please seud me two more cases. I sha is happy to recommend it to my medical friends requiring a good Morphia Stup.

Dr. CLEGG, Edge Lane, Liverpool.

Please send the Morphia Solution to Captain — It is for his own us paroxysms of pain. Your preparation preferred, though many have to

Dr. II F. O'REILLLY, Akassa River, West Coast, Africa, I have a set of your "Permanent" Hypodermie Solutions. They are it everything one could wish, and a vast convenience out here.

Dr. ALLAN, Harbor Grace, Newfoundland. Please forward me a case of each of your 'Permanent'' Solutions for Hyde u-c. and you can fill up the balance with Solutions of Eigotine and Morph

HOME, COLONIAL, and FOREIGN CHEMISTS and FIRMS are offered SOLE AGENCIES, and would be supplied at long discounts, at them to supply the Trade. (Delivered in London.) Descriptive Lists of "Permanent" Solutions, with their Strength, Doses, Uses, &c., a few in Cases, and Testimonials, supplied to Agents.

LONDON AGENTS-Messrs. Maw. Son & Thompson. Aldersgate Street; Messrs. Down Bros. 3 St Than Street, Borough. EDINBURGH-Mr. A. Young, North Bridge and Forest Boad. YORK-Aitkin & C BELL'S PATENT PILLS AND OINTWICK

Dr. WILSON, Consulting Physician, Ladies' Charity and Lying-in Hospital, I have used your "Permanent" Solution of Ergotine for subcutaneous injection, ever since its introduction (some six years ago), and have always found it successful, never followed by abscess or local inflammation.

never followed by abscess or local inflammation.

Dr. JOHNSTONE, 53 Oxford Street. Abercromby Square, Liverpoot.

May 17, 1882.

Have great pleasure in bearing festimony to the great value of your "Permanent"
Solutions for Hypodermic Injection. I have used the Solutions of Ergotine, Morphia, and Strychnine, with benefit to my patients, and credit to myself. In no case during four years use of them, have I found any abscess or inflammatory mischief follow their injection. In hamorrhage from various parts of the body I have found your Ergotine a speedy remedy. The Strychnine preparation acted exceedingly well in a case of paralysis. The solutions are not only efficient, but convenient and portable.

Dr. FERGUSSON, Peebles, N.B., March 18, 1882.

I find your Morphine Solution most admirable, and I use no other.



Are acknowledged by thousands to be the best and safest medicine ever offered to the public.

It is impossible to equal them in the worst cases of Nervousness, Liver Complaints, Indigestion, Lumbago. General Debility, Bile, Disordered Stomach, Costiveness, Female Complaints, Wind, Skin Diseases, all Eruptions, Boils, Ulcers, Burns, Cancers, Abscesses, Piles, &c., &c.

Handbills and Posters, with name and address, sent to any Chemist, or for enclosure to any wholesale house, on receipt of Post-

In $1/1\frac{1}{2}$, 2/9, and 11/1 Boxes and Pots.

Sole Manufacturers, W. BELL & CO., Reading Berks.

W. F. SMITH'S TASTELESS

Price, 1s. 13d. and 2s. 9d. per Box.

TARAX AND PODOPH. Registered.] [Registered.

A NON-MERCURIAL LIVER MEDICINE, specially useful to the habitually constipated, and safe for all ages.

Special caution needed against injurious imitations. Worthy of trade notice. Reliable, and rapidly increasing in public acceptance.

PREPARED ONLY BY

W. F. SMITH, M.P.S.,

280 WALWORTH ROAD, LONDON.

MAISH'S LIVER

In all the Wholesale Lists for years past. Sale Established 29 Years.

These Pills create a lasting demand wherever they are introduced

One dozen 1s. 1½d. size, with 1,000 exceptionally good Counter Il Stamped in Colour, with Name and Address, forwarded earnage preceipt of remittance for Nine Shillings.

Proprietor, EDWARD MAISH, Chemist, BRIS

KEARSLEY'S WIDOW FEMALE PILLS.

These are universally acknowledged to be the Genile and Druggists may safely recommend them.

CAUTION!

The proprietors of Kearsley's Original Widow Welch's Female Pill'it incumbent on them to caution the purchasers of these Pills at various imitations by parties who have no knowledge of their pet preparation, the Original Recipe having been sold to the late G. Keas of Fleet Street, whose Widow found it necessary to make an Affidavi the protection of her property. In the year 1798. The Gennine Reci Widow Welch's Female Pills has been prepared by the 96 Years! Chemists are particularly requested to remark that, testimony of authenticity, each bill of directions contains an Affidavi bears the signature of "C. KEARSLEY," in writing, also engraved of Government Stamp, and each box is wrapped in WHITE paper.

1,000 Handbills, with Name, and 2 Tin Showca:

Supplied with all Orders for One Dozen (13) Boxes,

PRICE 27s. PER DOZEN, subject to usual Discou

Special Quotations to Shippers and for large quantities, on application to

J. SANGER & SON 489 OXFORD ST., LONDON, W.

To be had of the usual Houses at Home and Abroad.

WONDERFUL MEDICINE!



Between thirty and forty years ago a Medicine was introduced to the public, and suffering humanity was invited to try the same.

The Proprietor knew from experience that success was certain, but the human breast is so imbued with prejudice, that it forms one of the strongest barriers to break down and the greatest enemy to overcome before any headway can be made towards the mansion of success. Truth has often proved itself to be "stranger than fiction," and it is a fact as solid as truth that

BEECHAM'S PILLS

have now become one of the leading Patent Medicines of the present day. From north to south, and from east to west, they are to be found in the homes of the rich and the poor. All classes of society use them, and they are by thousands declared to be

WORTH A GUINEA A BOX.

For a Weak Stomach, Impaired Digestion, and all Disorders of the Liver, the act like "MAGIC," and a few doses will be found to work wonders on the mot important organs in the human machine. They strengthen the whole mucular system, restore the long-lost complexion, bring back the keen edge of opetite, and arouse into action, with the ROSE-BUD of health, the whole physical energy of the human frame. These are "FACTS" admitted by thusands, embracing all classes of Society, and one of the best guarantees to the Nervous and Debilitated is, BEECHAM'S PILLS have the LARGEST SAE of any Patent Medicine in England.

South Africa BEECHAM'S PILLS have the largest sale of any Patent Medicine ever introduced into that part of the World.

Il Patent Medicine Dealers abroad will find BEECHAM'S PILLS one of the most profitable and ne of the best selling articles in the Market. The demand for them is regular, and all Foreign Holes who are desirous of getting a First-class Patent Medicine are respectfully requested to get EECHAM'S PILLS from the leading Wholesale Houses in England (as no business will be don with any Foreign House by the Proprietor direct).

'AUTION.—The Public are requested to notice that the words "IEECHAM'S PILLS, ST. HELENS," are on the Government Stmp affixed to each Box of the Pills; if not on, they are a Forgery.

Prepared only, and Sold Wholesale and Retail, by the Proprietor,

THOMAS BEECHAM, 87. HELENS, LANCASHIRE, ENGLAND.

In Boxes, 1s. $1\frac{1}{2}$ d. and 2s. 9d. each.

N.B.-FULL DIRECTIONS ARE GIVEN WITH EACH BOX,

PRIZE INTERNATIONAL EXHIBITIONS.













LONDON, 1862.

PHILADELPHIA, 1876.

PARIS, 1878.

SYDNEY, 1879.

MELBOURNE

BROTHERS. KILNER

BOTTLE GLASS MANUFACTURER SOLICIT ORDERS FOR GLASS BOTTLES OF ALL KINDS.

FEEDING BOTTLES, GLASS MEASURES, SYPHONS, VAN BOXES & CASE

Illustrated Book and Price List on application to

No. 3 GREAT NORTHERN GOODS STATION, KING'S CROSS, LONDO

WILLIAMS'S PATENT No. 2,756),

Which is so simple in construction that it cannot possibly get out of order in any climate or temperatu

These Syringes have no Corks, the Piston being held by a solid plug with mount attached, fitted to the Syringe by an I'i rubber Band. They are both superior in appearance and effective in action.

The Mounted Plugs are made of Vegetable Ivory, Ebony, Boxwood, Cocus, &c.

Of all the Principal Druggists' Sundrymen, Surgical Instrument Makers, &c.

C. WILLIAMS,

Manufacturer of all descriptions of GLASS SYRINGES. TUBES, HOMEOPATRIC VIALS, FAIRFOOT ROAD, BOW, LONDON,

WILLIAM TOOGOOD.

35, 36, and 37 Mount Street, Grosvenor Square

LONDON,

GRADUATED MEASURES,

Stamped and Verified as required by the Weights and Measures Act.

dr. 2dr. ½oz. 1oz. 2oz. 3oz. 4oz. 6oz. 8oz. 10oz. 20oz. 40oz. 9/6 11/6 9/ 10/3 11/6 13/ 14/6 18/ 19/ 21/ 29/ 39/ per doz.

Caution.—Each Measure manufactured by me bears my name as a guarantee.

GRADUATED MEDICINE GLASSES

IN GREAT VARIETY .- See Price List.

INCORRODIBLE WHITE METAL SCREW-TOP BOTTLES.

Suitable for Vaseline, Pomades, Glycerine, Jelly, &c., &c.

DISPENSING BOTTLES.

Warranted Accurate Measure and Graduation SPECIAL ARRANGEMENTS MADE FOR LETTERING A WITH NAME, &c.

TOOGOOD'S NEW SHAPE BURNT CREAM POTS.

WITH CLIENT'S OWN NAME BURNT

DESIGNS. SPECIAL

PRICES AND SPECIMENS UPON APPLICATI

Illustrated Price List of Glass Bottles, Earthenware, Druggists' Sundries, &c., forwarded upon application.

reeing Bottles.

The ECLIPSE."



hit Fittings, 30/ per gross.

Bes Black Fittings, 3/ per gross.

he love are put up in One ozen Wood parioned Boxes.

HEARN, RIDDELL & CO., Glass Bottle Manufacturers, 381 KINGSLAND ROAD, LONDON, E.

GLASS BOTTLES of EVERY DESCRIPTION, either PLAIN or STOPPERED, made in WHITE, BLUE, AMBER, ACTINIC GREEN, or any other colour required.

SCREW NICKEL CAPPED POMADES, HONEY POTS, JELLY JARS,

SPECIAL ATTENTION GIVEN TO QUALITY.

Quotations, post free, to any part of the world on application. The above will be found the BEST and CHEAPEST House in the trade.



FRENCH SCREW GLASS POTS & BOTTLES,

The above new method will show advantageously Jams, Jellies, Honey, Dragés, Cachous, Pills, Lozenges, &c.; is specially adapted for Export, and excels all others for neatness and elegance. Made in various new Designs—Pots, "Kalis" tube-shaped Bottles, Bocals, &c. Spécialité for Bottles for all kinds of Confectionery, Essences Manufacturers, and Sundries.

THE LARGEST ASSORTMENT IN ENGLAND.

G. V. DE LUCA, French Flint Glass Manufacturer, 6 and 7 Long Lane, LONDON, E.C.

WHOLESALE AND EXPORT AGENTS—S. MAW, SON & THOMPSON, 7 to 12 ALDERSGATE STREET, LONDON, E.C.

Illustrated Catalogue for Patent Screw Capsule on application.

WITH BURNT-IN LABELS

(ack letters on a ground of pink or white enamel).

Man w-mouthed and Wide-mouthed Bottles, well Stoppered.

Cared and Tube-stoppered Oil Bottles.

Syro Bottles, with Plug Stoppers of Dark Blue or White Opaque Glass.

Lorige Jars with Cut Glass Knobs.

Out?erfume Bottles, Round, Oval, and Square.

She Jars of Best Porcelain, thoroughly Greaseproof.

lab Indestructible and of Elegant Appearance, forming an even surface with the Glass or Porcelain.

PFCE LIST ON APPLICATION.

A Large Variety of Samples on Show at

POTHS & 4 SUGARLOAF COURT, b LEADENHALL STREET, LONDON, E.C.

Alingst others the following have been supplied with these bottles

and s;—
B ford & Co., Bridlington Quay; Büchner, M., 124 High Street, White-chap London, E.; Corry, T. C. S., Dr., Belfast; Cottingham, W., Lincoln; Cogn., E. H., Newcastle-under-Lyme; Davis, Hayton, High Harrogate; Don In, Richd., Blackrock, near Dublin; Durrant, G. R., Hertford; Hall, Ed. 552 Kingsiand Road, London, N.; Howell, E. H., & Co., Narberth; Jenls, J. T., Nottingham; MacMillan, John, Glasgow; Potts, Charles, Ilken; Proctor, Wm., & Son, Newcastie-on-Tyne; Roberts, D. P., Croydon, 1978; Robinson, H., Bailden, near Leeds; Sannders, A., Waltham Stor London; Sharpe & Son, High Street, Notting Hill, London, W.; Bourn, J., Manchester, opposite the Assize Court; Taylor, P. N., 14 Essihall Street, London, E.C.; Twinberrow, W., & Son, 80 Wigmore Stre London, W.; Waterall, Geo., & Sons, Nottingham.

Office, Show Rooms, and Factory-

10a and 46 De Beauvoir Crescent,

(Near Whitmore Bridge.)

DOWNHAM ROAD, KINGSLAND, LONDON, N.

LLOYD RAYNER. Medical and General Shop Fitter,

SHOW CASE MAKER, FIXTURE DEALER, &c..

Has removed from 333 Kingsland Road to more commodious premises at above addresses, where the Show Rooms are complete with every description of Shop Fittings, Show Cases, and utensils required by

Chemists, Surgeons, Dentists, and all Trades.

Chemists' Secondhand Fixtures, Stock, and utensils bought and exchanged.

LLOYD RAYNER'S £75 CHEMIST'S SHOP,

Fitted complete with all New Goods, including Glass Show Cases, Gold-Labelled Shop Bottles, Jars, Carboys, &c. If for Export, suitable for any climate, including packing cases, and delivered to any of the London Docks free, £85. The above fittings are suitable for a shop 14 ft. long by 12 ft. wide.

Also a Second Quality Chemist's Shop is fitted complete for £55. If for Export, £65.

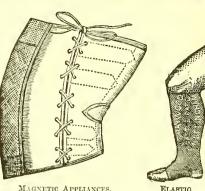
Hours o Business, 9 a.m. to 6 p.m. Saturdays, 9 a.m. to 1 p.m.

N.B .- The above Premises are within a few minutes' walk of Haggerston Station, N.L. Railway, or Omnibuses and Tramcars.

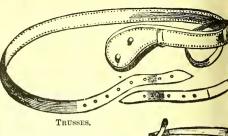
SURGICAL APPLIANCES



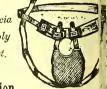
LADIES' AND GENTS' CHEST-EXPANDING BRACES.



MAGNETIC APPLIANCES, KNEE CAPS, BELTS, &c.



Greatest attention paid to Specia Orders, which are invariably forwarded per return of post.



STOCKINGS. List of Prices and Directions for Measurement forwarded on application. Suspensory Bandain

J. H. HAYWOOD, Castle Gate, NOTTINGHAM

Original Plaister Works.

ESTABLISHED OVER 60 YEARS.

A. De St. Dalmas 40 Belgrave Gate, Leicester.

MEDICAL

Of all kinds (Best Quality) for HOME and EXPORT. PATENT

POROUS PLAISTERS-Yards or Boxes.

Order "St. Dalmas's" through Wholesale Houses. Prices on application.

FRANCIS'S BRONCHIAL PROTECTO

Is the best preventive and cure of Bronchitis, Asthma, Winter Ct Tight Breathing, and all Throat Complaints. 1s. 1½d. & 2s. 9d. Mr. J. D. Fisher, Chemist, Blackpool, in ordering another supply say: have tried it myself, and have received great benefit from it. My cust a speak highly of its virtues. Have sold the last, so he prompt, please."

Manufactured by A. DE ST. DALMAS Leicest

LINDSEY

EXPORT

TRUSS & BANDAGE MANUFACTURERS

LONDON, GRACECHURCH

NETT PRICES .__ 1883.

COMMON PRINCIPLE TRUSSES, Basil and Chamois Ditto Mole Lined White or Red Roan .. 18s. and Ditto Calf Covered, Silk Sewn DOUBLE TRUSSES, COMMON PRINCIPLE, covered Basil and Chamois
Ditto Mole Lined $_6^4$ Ditto White or Red Roan Calf and Silk sewn Ditto 15 SINGLE CIRCULAR, VERY LIGHT AND NARROW SPRING, imperceptible— Plain, Single Best Covered, Single 5 Plain, Double Best Covered, Double $\frac{5}{2}$ $\frac{1}{6}$ SALMON & ODY'S EXPIRED PATENT, Single, Basil and Chamois

SALMON & ODY'S EXPIRED PATENT, Single, White or Red Roan Ditto Ditto White or Red Roan Ditto Ditto ", Calf, Silk sewn ...
VERY NARROW, SALMON & ODY'S PRINCIPLE, as "Wickham's, Superior Truss, Single

Ditto Double ...
COLE'S EXPIRED PATENT TRUSSES, Single, covered hest Doeskin
48/ and

Double, covered hest Doeskin, 96/ and Ditto Moc-Main TRUSSES, Plain, Stuffed real Moc-Mainas White's, £3 12s. Double

Sunk Springs, ditto-Ditto Double 10 16 as White's, £5 8s.

LINDSEY & SONS' Trusses have long maintained a high reputation for quality, and they will happy to send their full descriptive price list on receipt of address, post free.

Customers are requested to order specially LINDSEY & SONS' TRUSSES, either direct or through a Wholesale House.





Be to subjoin Prices for Dispensing Bottles in Original Packages.

FLATS OROVALS.

3 & 4 oz. 6 & 8 oz. 32 oz. 12 oz. 16 oz. 20 oz. 10 oz. 40 oz. 9/-13/-14/617/-21/-28/ner 35/gross.

2 oz. 4 oz. 10 oz. 12 oz. 16 oz. 10 3 oz. 6 oz. 8 oz. 20 oz. per gross. 7/9 **7**/9 11/-15/-20/-6/8

VIZ.,

2 oz. 6 oz. 8 oz. 10 oz. 12 oz. 16 oz. 20 oz. 32 oz. 12 10 31 21 2 6 11 1 gross

May be made up of assorted sizes, if preferred.

MOULDED VIALS. ROUND 1 . 2 oz. 3 oz. 2 dr. $1\frac{1}{2}$ oz. 1 oz. 1 oz.

4 oz. 10/- gross. 36 5/6 6/94/-4/65/-

CARRIAGE PAID

London,

Loughboro',

Barro in-Furness, Bedfor, Birke lead, Birmi ham,

1 1

Black rn, Derby, Bolto Dudley, Bosto Fleetwood, Bradf d, Glasgow, Briste Grantham. Bursl |d, Halifax, Burto

Hanley, Bury ancs.), Harwich,

Horncastle, Buxton. Cambridge, Hull, Coventry, Ipswich, Darlington, Kidderminster, King's Lynn, Lancaster, Leeds. Leicester, Lichfield.

Louth, Lowestoft, Macclesfield, Manchester, Market Harboro', Middlesbro', Newark, Northampton, Lincoln, Norwich, Liverpool,

TONottingham, Oldham, Oswestry Peterboro', Preston, Rochdale, Rugby, Shrewsbury, Stafford, Stamford, Stockport,

Stourbridge, Walsall, Wellingboro', West Hartlepool, Wigan, Wisbech, Wolverhampton, Worcester, Wrexham, Yarmouth, York.

WHITE FLINT,

VIALS. MOULDED 1 OZ. 1 oz. $1\frac{1}{9}$ oz. 2 oz.

3 oz. 2 dr. 4 oz. 3/10 per gross. 26 2/9 3/-3/44/65/6 6/6 ROUND SHOULDERED NARROW-MOUTH

3/per gross. 26 2/9 3/4 3/104/65/6 6/6

PACKAGES, IN LONDON. PRICES NET CASH, MONTHLY.

ALDERSGATE STREET. LONDON.

ONE POR

M.C.

BATTER

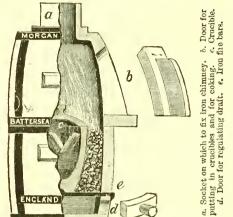
Ch 17

SALAMANDER of MORGAN'S and CRUCIBLES. Manufacturers Sole

PORTABLE FURNACES.

EXTERIOR DIMENSIONS IRON BOUND.

For MELTING GOLD, SILVER, COPPER, &c. For ASSAYING, DENTAL WORK,



	_			-									
	Dian	١.	Diam. milli.	I	Ieight	t, F	lauteur	, For	Morga	n's	1	Pric	e.
No	, in.		milli.		in.		milli.		rucible		£	8.	д
A	91		.235		171		.445		No.2		1	0	0
В	93		·248		20		•508		., 4		1	5	0
	11												
D	134		•349		26		.660		., 8		2	5	0
\mathbf{E}	14½		369		28		.712		,, 12		3	0	٥
F	18	• • • •	.457	• • • •	32	• • • •	.813	• • • •	,, 16	• • • •	4	0	0
_											_		-



		Long,		Wide		High,	P	rice,			Long,		Wide.		High,	Pı	rice.	
No		in.		in.		in.	per	doz.	No		in.		in.		in.			
A		7		31/2		$2\frac{1}{2}$		12/	G		11		4		31	ī.,	21/	1
						$2\frac{7}{8}$			\mathbf{H}						$3\frac{7}{8}$			
															4			
								21/	K		14		8		5		48/	1
								24/	L		15	٠.	9		6		54/	1
F		10		6		4		27/										
	Si	zes A	to	F. als	o F	are 7	917	ted for	the	En	rnaca	۰ ۵	f the	. o T	no loti	ora		

G to L have one slit at back only, none at sides.
In addition to those priced above, Muffles are made of all shapes and sizes, suitable for Assayers, Enamellers, Dentists, &c.

ı	MUFFLE FU	
	Sizes F and K a with an extra 1 (b) to take a Mo ble No. 8 (F) an	arge to L
	(b) to take a Mo ble No 8 (F) an	rgan's a
	Die No o (r) an	t 3 LIS
	grate.	1
	Koroso I I I I I I I I I I I I I I I I I I	1 :_
	which to fix iron chimney. Door of mutile. c. Mutile g. Door for regulating d for mutile. i. Fire-clay g W Baltiersey C C	77
	e e e e e e e e e e e e e e e e e e e	NAB /
	iro iro	
	to find the fix is to fix in the fix is to fix in the f	
	which to fix in the first of th	admi
	id by the BATTERSEA W	TSS, Co
	ie e e	tithey h
	a. Socket on c. Munfte. d. stirring fire.	These V
	Name of the state	i tee, T
	Vi manakan hakan kalan kalan kan	18 11000
)	Exterior dimensions. Interior dimensions.	"The

Exterior dimensions.	Interior dimensions.

		idth and			W	vidth and				
		pth front	tΙ	argeur et	de	opth front	L	argeur e	t	For Battersea
		to back	T	rofondeur		to back		ofondeu		Muffles
A		$12\frac{1}{2}$	٠.,	*318		91		.235	٠	ABCD
В		$13\frac{1}{4}$		·337		10		254		BCDE
C		$14\frac{1}{2}$.369		11		.280		CDEFH
D	٠.	$15\frac{1}{2}$		*394		12		.305		DEFGH
E		$16\frac{1}{4}$.		.414		123		.324		EFGH
F		$17\frac{1}{2}$		445		193		.350		FGHJ
K		23 .		*585		10		.483		KL
									-	

Die	1.	1	Diam. milli.	P		Diam.	DISI	HE	Per doz.		F
K	• •	23		•585	••	19	 •483		KL		_
F		$17\frac{1}{2}$		445		$13\frac{3}{4}$.350			HJ	
E		164		*414		123	 *324			GH	
D	٠.	$15\frac{1}{2}$		*394		12	 .305		DE	FG	H
U		1767		Gue.		11	 .580		$-\mathbf{C}\mathbf{D}$	E F	H

1/6 5 Larger sizes to order.

	SCORIFIERS. (PER GROSS.)											
Diam.		Diam.			Diam.		Diam.		,			
in.		milli.		Price.	in.		milli.		Price.			
1		.026		3/	$2\frac{1}{2}$		*064		5/	6		
11		.032		3/6	28		.070		6/	7		
11/2		.038	••	4/	3		.077		7/6	,		
2		•051		4/6	31		•089		97			
$2\frac{1}{4}$	• •	.057	••	4/6	4		.102		10/6			

ASSAY

FOR COPPER.

CORNISH FORM AND QUALITY (JULEFF). High, Hauteur, Diam. Diam. in. milli. in. milli. in. Nest of Two $\begin{cases} \frac{31}{2} \\ 2\frac{1}{2} \end{cases}$.083 .077 .077 } 2/ per doz. .051 23 .064 All sizes and shapes to order.



FOR TIN.

Hauteur, milli. Diam. Diam. in. milli. .. 3 .. °077 6/ per doz. Covers, 2/ per doz.

FOR LEAD.

CRUCIBLES.

3 in. diam., '077 diam. milli., with Covers, 2/3 per dozen. Other sizes to order.

FOR GOLD

THESE	ARE	PERFE	CTLY	SMOOT	H, AN	DOFT	THE	CORRECT	Por	OSITY.
		Diam.		Diam.		Height	,	Hauteur,		Per
No.		in.		milli.		in.		milli.		doz.
A		11		.027		11	5.8	.027	0-0	2/
В		11		.032		14		.032		2/
C		1 1		•038		11/2		•038		2/
D		12		.045		2		*051		2/
		Co	vers i	or eith	er si:	ze. 6d.	ner	doz.		



POROUS BATTERY CELLS

OF SUPERIOR QUALITY.

PPC.C BATTERSEA

ROUND.

LIST OF PRICES ON APPLICATION.

BATTERSEA

NOTICE.—Care should be taken in all instances, when ordering, to specify the Crucibles, &c., manufactured by

(Sole Manufacturers of Morgan's), Battersea Works, LONDON, S [, bade and Salamander Crucibles

E. GOULD & SON,

Manufacturers and Importers of

HIMGOPATHIC MEDICINES

HOMEOPATHIC SUNDRIES OF ALL KINDS.

PRIC LISTS OF MEDICINES, MEDICINE CHESTS, &c., POST FREE TO ANY PART OF THE WORLD.

59, MOORGATE STREET, LONDON, E.C.

ORIGINAL AND ONLY GENUINE

H)MŒOPATHIC ABSORBENT WAFERS

(REGISTERED)

Fr administering Tinctures of all Dilutions without the inconvenience of Dropping or the necessity of Water.

ERS. CONYNGHAM & CO. are convinced many Homeopaths would prefer the use of Tinctures to Pilules, were it not

r the inconvenience experienced in dropping them, and the necessity of water for the administration of each dose; consemulthey have introduced these ABSORBENT WAFERS as a successful mode of meeting this difficulty.

The Wafer sare so prepared that, when placed over the mouth of the bottle (which is carefully tilted), they absorb the sale se. The Wafer is then immediately placed upon the tongue to dissolve like an ordinary Pilule; thus at once dispensing with trouble of dropping and the use of water.

"Very useful for business people. We wish the Wafers all success."—Homocopathic World.
"The Wafers will be found very popular, as they add considerably to the convenience of administration."—Chemist and Druggist.

ONE SHILLING Boxes only, with directions (in Spanish or German when required), by the Inventors-CONYNGHAM & CO., Baggot Street, DUBLIN.

(The Original Green Label, CONYNGHAM & Co., 13 Stephen's Green North, Dublin).

Loan Agents: JAMES EPPS & CO., 48 Threadneedle Street; E. GOULD & SONS, 59 Moorgate Street.

CAN BE OBTAINED THROUGH ALL THE WHOLESALE HOUSES.

DRUG C?

OS PORTON A CONTROL OF THE CONTROL OF THE

HOLLOWAY'S

hie the Largest Sale of any Medicine in the World.

MANUFACTURED ONLY AT

Pro ssor HOLLOWAY'S Establishment, 7 New Oxford St. (late 533 Oxford St.), London.

and so at 1s. 11d., 2s. 9d., 4s. 6d., 11s., 22s., and 33s. each Box or Pot.

Cherts and Druggists selling "Holloway's Pills and Ointment" can, on applies n to the above address, or to the Wholesale House with whom they debugged by the supplied free of charge with Handbills and Posters with their names address printed at foot.

for Wiesale Terms see List of " Proprietary Articles" in most Price Currents.

Index to Advertisements,

Pages 41, 42.

ESTABLISHED 1843.

THOMPSON & CAPPER,

WHOLESALE AND EXPORT

HOMŒOPATHIC CHEMISTS.

55 Bold St., Liverpool,

And (late HENRY TURNER & CO.)

51 Piccadilly, Manchester,

ILLUSTRATED PRICE LIST ON APPLICATION.

THOMPSON & CAPPER have now for many years, with the greatest benefit to their Agents throughout the world, supplied, free of cost, Books for Gratuitous Distribution, compiled by themselves, containing complete directions for using the Homeopathic Medicines, a plentiful distribution of which invariably ensures a large sale. Handbills also, with name, ad lib.

THOMPSON & CAPPER'S

DENTIFRICE WATER.

Sells well everywhere, its beneficent qualities being attested to by physicians in all parts of the world. (See Testimonials.)

In 1s. 6d., 2s. 6d., 4s. 6d., and 8s. 6d. Bottles.

TO SAVE MONEY,

AVOIDING RISK AND OUTLAY.

CHEMISTS ACCEPTING AN AGENCY FOR

FELTWELL'S BALSAM OF ANISEED,

LICORICE AND LINSEED,

The Best Remedy ever sold for COUGHS, COLDS, BRON-CHITIS, ASTHMA, CONSUMPTION, CHRONIC COUGH, &c., &c., will find it well worth their attention, paying as well as their own Proprietary articles, with no risk or expense.

SPECIAL TERMS TO AGENTS. WRITE FOR PARTICULARS.

Sold in Large Bottles at 1s. $1\frac{1}{2}d$., 2s. 9d., and 4s. 6d. each.

ALMANACS FOR 1884.

The Proprietor of above will be glad to include an Advertisement with any Chemist who intends to issue an ALMANAC for 1884, providing no other Cough Preparations are advertised. Send full particulars as to price per page, position, quantity issued, &c., to

J. W. FELTWELL,

DISPENSING CHEMIST,

91 Hammersmith Road, West Kensington, W.

TRUSSES

The World's Recognition of M

LONDON-1881-ANNOUNCEMENT.

At the late International Medical and Sanitar E BITION, the World's most competent Judges recognisunequalled excellence by granting the

ONLY "AWARD FOR TRUSSES," TO I. B. SEELEY, PHILADELPHIA, U.ER

(Over Sixty-Eight Competitors), confirming their hig a with America's most distinguished Surgeons.

London Exhibition Judges.—Thomas Bryant, F.R.C.S., Christop I F.R.C.S., Thomas Smith, F.R.C.S., John Wood, F.R.S., F.R.C.S.

SEELEY'S HARD RUBBER TRUS IS A







Fine Steel Springs, neatly covered with highly-polish Rubber. Made in every desirable pattern; with Pads analy constructed. Light, cool, cleanly, durable; unequalled in finish, and practical construction. Unaffected by time climate; used in bathing. Always Reliable. Prices 15 St to meet the popular demands. Sold and supplied by all Druggists and Dealers. To avoid Spurious Imitations, see 6 stamped (Spring and Strop), "I. B. Seeley—Warrant FS,

Establishments: 1347 Chestnut Street, Philadelphia, Ph. 74 Fleet Street, London, England.

The Correct and Skilful Mechanical Treatment of HE RUPTURE A SPECIALTY.

Under Patronage of the world's most distinguished Surge References.—Professors S. D. Gross, D. Hayes Agnew, Willar W. H. Pancoast, Dr. Thomas G. Morton, and others. As success finds envious IMTATORS, ask for "SEELEY'S GE

As success thus envious imitations, askini bibbli b uz

HENRY'S CALCINED MAGNESIA

Continues to be prepared with scrupulous care in the greatest chemical purity, by

Messrs. THOMAS & WILLIAM HENRY, 11 East Street, St. Peter's, Manche Mark, "Henry's Calcined Magnesia and I Trade Mark, "Henry Magnesia and M

Price 4s. 6d., or 2s. 9d.

NEW YORK—Messes. J. & S. FERGUSON, Pine Street. PARIS—Messes. ROBERTS & Co., 23 Place Ven

WHITE & LANSDALE, successors to

E. GOULD & SON,

20 BISHOP'S 1

LONDON, V

ESTABLISHED

(Mr. WHITE many years Manager to Messrs. E. GOULD & SON at above address),

MANUFACTURERS OF HOMEOPATHIC MEDICINES & SPECIAL PREPARATI

"Macniven & Cameron's Pens are the Best."

"1,745 NEWSPAPERS RECOMMEND THEM."_See The Graphic.



THE PICKWICK PEN.
THE HINDOO PEN,
Nos. 1, 2, and 3,

FOR FINE WRITING.
HE COMMERCIAL PEN.
THE WAVERLEY PEN.

Machiven&Cameron Nº 2. HINDOO PEN EDINBURCH

SAMPLE BOX, WITH ALL KINDS, BY POST, 1s.

They come as a boon and a blessing to men.
The Pickwick, the Owl, and the Waverley Pen."—Oban Times.
"They are a treasure."—Standard.

SHIPPERS AND DEALERS SUPPLIED AT SPECIAL RATES.

PATENTEES OF PENS AND PENHOLDERS,

MACNIVEN & CAMERON, 23 to 33 Blair St., EDINBURGH,

Pen Makers to Her Majesty's Government Offices (Estab. 1770).
"The world owes a debt of gratitude to the patentees for their excellent inventions."

Seware of the party offering imitations of these Pens. —Sun.

KOLA?

COLA NUT. Certain cure for Dipsomania. Cures drunke spanish an hour. Alcohol will not make you drunk if you eat I persevered in it removes the craving for strong drink! Enable staker to undergo long fast and fatigue. Is an appetiser, a tollate for anyone at any time. See leading article devoted to this will plant, Daily Telegraph, Aug. 24, 1883.

SOLD IN BOXES at 2s. 9d, by

EYMAN & PHILLIFS 15 CLIFFORD STREET, BOND STREET

OR OF ALL CHEMISTS.

Newspaper Notices and Testimonials Free.
Wholesale Agents:—Messrs. Barclay, Newbery, Lynch, Ho di
Edwards, Thompson, Millard, Maw, Son & Thompson, &

AGENTS WANTED IN ALL LARGE TOWN

RESPIRATORS!!

Pag .					
	1		\mathscr{L}	s.	d.
	0	D , per doz	0	8	0
PE)L	IER'S, per doz., No. 8, 18/-; No. 1, 24/-; No. 2, 30/-; No. 3, 42/-;			
- 4		No. 4, 48 /-; No. 5, 36 /-; No. 6	2	14	0
11.	R	··· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ··	0	6	0
A 111)T'	ON WOOL, per doz Oral, 48/-; Orinasal	3	0	0
RI	AV	'S ÆTHEREON, per doz Silver-plated, 40/-; Gilt	3	4	0
	IV	'S MICRO-ÆTHEREON, per doz Silver-plated, 40/-; Gilt	3	4	0
亞	AV	'S INCORRODIBLE METALLIC, per doz., No. 1, 8/-; 1A, 12/-;			
er a -	10	, 21/-; 2A, 18/-; 3, 30/-; 3A, 24/-; 4, 32-/; 5, 40/-; 6, 45/-; 7, 50/-;			
	1	8, 56 /-; Dwarf, No. 1, 24 /-; 2, 30 /-; 3,	2	0	0
2 1	LV	'S SCARF, each Silver-plated, 5/6; Gilt	0	8	0
- da	G:	TINGALE'S INVISIBLE, each No. 1, 3/8; No. 2, 7/-; No. 3,	0	14	0
-T;	00:	F'S, per doz 19/-, 27/-, 39/-, 48/-, and	3	3	0
Paris.	00	F'S ORINASAL CHARCOAL, for preventing the Inhalation of			
~9		eleterious Vapours and Poisonons Powders in Chemical and Manufacturing			
7		stablishments each	0	5	6

Intiseptic Inhalers.

1:	TS!	IN'S—							£	8.	d_{\cdot}
net Mari		ATENT POCKET, Tube Form, Glass	• • •		•••		•••	each	0	2	8
7		ATENT POCKET, Tube Form, Metal	• • •	• • •	•••	•••		"	0	4	2
of i-Si		ATENT POCKET, Tube Form, Vulcanite	• • •		•••	•••	•••	,,	0	4	2
1.0		ATENT POCKET, Bottle Form, Vulcanite	• • •	•••	• • •	•••		,,	0	8	0
		ATENT POCKET, Bottle Form, Cut Glass		•••		•••	•••	,,	0	8	0
المر المر الم		ATENT POCKET, Tube Form, Pure Silver	• • •	• • •	• • •		• • •	,,	0	16	0
المملا		ARBOLATE OF IODINE for above	•••	•••	•••	•••		,,	0	0	9
F7.55	П	UBULETTES for Inhalers						"	0	0	9
1:1	OG.	ILL'S, Fig. 1, each		Me	etal,	2/8; 1	letal-co	vered	0	5	0
A		(Solution ϵ	extra,	1/)							
20	0G	ILL'S IMPROVED, Nickel-plated, Fig. 5		• • •		•••	•••	each	0	3	0
		(Solution e	extra,	1/)							
-	080	RAVE'S	• • •	•••	• • •			each	0	4	0
3	AC	CENZIE'S, with Solution, Fig. 6, each	• • •	Bro	nzed,	4/6;	Nickel-p	plated	0	8	6
=	OB	RTS', Fig. 2, each		Bro	nzed,	2/4;	Nickel-p	olated	0	3	6

MAW, SON & THOMPSON, ALDERSGATE STREET, LONDON.

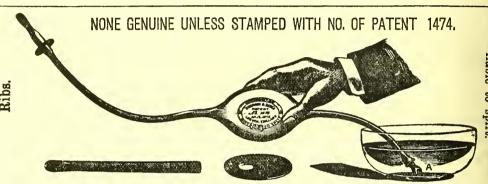
THE ONLY PERFECT ENEMA OBTAINABLE

INGRAM'S IMPROVED HIGGINSON ENEMA AND SYRINGE APPARATION

(BY ROYAL LETTERS PATENT).

Made without Seams or Ribs by our Patent Process of dipping in a solution of direction Rubber, thus adding great strength and durability.

CAUTION.—The only Enema made without



WARRANTED NOT TO SPLIT.

A .- Metal Pin Valve.

adonn

INGRAM'S IMPROVED PATENT SEAMLESS ENEMA is perfectly smooth on the surface not become hard or sticky, will not leak, and will not admit air while injecting or refilling. Specially preparesist the heat of tropical countries.

The great superiority of INGRAM'S IMPROVED PATENT SEAMLESS ENEMA over all has given rise to various imitations, and it has become imperative that the Patentees should, in order to Plyntee DECEPTION, explain the PROCESS OF MANUFACTURE OF THEIR ENEMA and the MODE OF MANUFACTURE OF IMITATIONS, as they have undeniable proof that inferior enemas are positively being sold as their "ADVERS."
PATENT SEAMLESS ENEMA.

VIZ.: By repeated dipping in a solution of India Rubber until the required substance is attained. This proce was greatly to its STRENGTH and DURABILITY, and, at the same time, dispenses WITH ALL SEAMS, which, as is well are weak points in an Enema. This improved mode of manufacture (the result of long study and expenses the Patentees to produce a PERFECT ENEMA WITHOUT SEAMS, thus overcoming the great fault to be for all other Enemas, viz.: Splitting and leaking, which has always been a source of trouble.

INGRAM'S IMPROVED PATENT SEAMLESS ENEMA is fitted with IMPROVED VALVES, 1875 prevent the admission of air with the fluid and CAN at any time BE REPAIRED, if necessary.

ENEMA are made of several pieces of Sheet India Rubber, which are cemented together and shar a mould, thus producing ribs on the surface, and enemas so manufactured are always liable to spiller at the seams, and thus to become quite useless.

INGRAM'S IMPROVED PATENT SEAMLESS ENEMA may be distinguished from IMITATIONS by its ENTIRE FREEDOM FROM RIBS OF ANY DESCRIPTION on its surface, and by having an IMPROVED PIN VALVE at the suction end A; and it is acknowledged to be the ONLY PERFECT ENEMA OBTAINABLE.

Patented in England, No. 1474, April 12, 1878; in France, No. 126,909, October 11, 1878 in America, No. 212,939, March 4, 1879.

To be obtained of all Surgical Instrument Makers, Druggists' Sundriesmen, Chemists and Chemists' Sundriesmen, Chemists

No. 1a. Highly Polished, in Red, Green, Blue, Black, or White.

No. 1b. Unpolished, in Red, Green, Blue, Black, or White.

No. 2. Unpolished, in Drab only.

GOLD MEDAL, VIENNA, 1883.

ORIGINALITY AND RELIABILITY

RECEIVED HIGHEST AWARDS-MEDALS AND DIPLOMAS-OVER ALL EUROPEAN AND AMERICAN COMPETITORS.

PHILADELPHIA, 1876, MELBOURNE, 1880, NEW YORK, 1881,

PARIS, 1878, NEW YORK, 1880, ATLANTA, 1881,

NEW YORK, 1879, MATANZAS, 1881, CHARLESTON, 1882.

SEABURY & JOHNSON.

MANUFACTURERS OF

Hia Rubber, Medicinal, Adhesive, Bunion, Corn, Court,

TERS Kid, Leather, Mustard, Spread,
Pharmaceutical and Surgical

Olivery description, in the most approved form. Also, Absorbent, Borated, Salicylated and arbolated Cotton, Antiseptic Gauze, Bandages, Cotton Wool, Gutta Percha Tissue, Lint, Oil Silk and Muslin, and every variety of Surgical and Antiseptic Dressings.

SFCIALTY:—Pharmacopoeia & Surgical Plasters, in India Rubber Combination, Porous & Spread.

Office & Salesroom, 1 & 2 Australian Ave., London, E. C., England.

TERMS FOR 1882.

NYTHLY SETTLEMENTS. ONE PER CENT. FOR CASH WILL BE ALLOWED, PROVIDED BILLS ARE REMITTED FOR WITHIN TEN DAYS FROM DATE OF SHIPMENT, NOT OTHERWISE.

DISCOUNTS:-Goods to be scleeted from our List at pleasure.

Orers amounting to £25, nett, will be subject to 10, 15 10

Orers under £5, nett, long prices will be charged without discount. CARRIAGE ALLOWED OR PREPAID ON £25, NETT, ORDERS ONLY.

EVERY ARTICLE WARRANTED.

Parmacopœia & Medicinal India Rubber Porous Plasters. Packed two dozen in a box. Size, 5x7% inches.

Acote per gross, 3 0 0 2 14 0 2 0 0 2 8 0 3 12 0 Poor, Vian's... 1 10 0 Stre thening.....

Spread and Porous at same rates.

YARD ROLLS

Parmacopœia & Medicinal Plasters, in Rubber Combination.

Acus of Flath Spread, Size, 7 in, wide by			
		£ s. 1	d
Acor e and Belladonnape	r dozen.	1 16	0
		1 7	C
Bellionna		1 1	O
Blist, Cantharidal	· ·	1 7	6
Caps um	6.6	1 7	6
100	4.6	0	0
Mercrial		1 16	0
Opiu	6.6	1 16	0
Disaster	4.4	1 77	6
Pitcl Burgundy		1 1	.,
Roberns	4.7	1 7	6
The -	6.6	1 7	6
Thaja		+ +	1)
Waring	4.6	17	6
A full line, Plain and Porous.			
A full line, Plain and Polous.	•		

BREAST PLASTERS

Belidonna, Lead & Phytolacca Decandra, SEPARATELY OR IN COMBINATION.

One bzen in a box. 6 & 7 inches in diameter, Porous and Plain Spread.

Mead's Adhesive Plaster,

PLIABLE AND ANTISEPTIC.

5 yd olls, 14 inches wide,per 5 yd. roll, 5s. 0d.

1 yd olls, 7 inches wide.per dozen, 14 0 Dy also be had in Spools, 1/2, 1, 2 and 3 inches wide.

Salicylated I. R. Adhesive Plaster,

Porous or Plain Spread, on Strong Cotton Cloth. Yard Rolls, 7 inches wide per dozen, 17s. 0d. 5 yard Rolls, 7 inches wide per roll, 6 6 May also be had in Spools, 1/4, 1, 2 and 3 inches wide,

On Twilled Linen and Moleskin.

Corn and Bunion Plasters.

Mead's MEDICATED......per dozen boxes, 8s. 0d. Each box contains one dozen Plasters.

Also a full line of Arnicated Corn and Bunion Plasters, round, oval and Square, all styles, thick and thin; in Glass Top Boxes, and containing each 1 gro. Corn or ½ gro Bunion.

COURT PLASTER.

40 different styles, elegant and Balsamic.

Surgeons' Salicylated Isinglass Plaster.

On fine, pure silk, "Flesh, White or Black." 7 inches wide, r yard long......per dozen, £1 2s. 0d. Also, on Tracing Cloth and Muslin.

Mustard Plasters,

Spread on Cotton Cloth.

Tins, containing 10 leavesper	dozen,	10s.	0d.
Envelopes, containing 6 leaves		6	0
Envelopes, containing 3 leaves		3	0
Yard Rolls, 6 inches wide	6.6	10	0
Half-yard Rolls, 6 inches wide		ű	0

Antiseptics and Absorbents.

A most extensive line, comprising Absorbent, Borated, Carbolated and Salicylated Cottons; Hospital and Flax Lint; Oil Silk and Muslin, Gutta Percha Tissue; Carbolated, Antiseptic, Eucalyptus and Iodoform Gauze; Roller, Flannel and Rubber Bandages, Catgut Ligature, and

Surgical Dressings of every description.

SPECIAL NOTICE.

Our New Catalogue of Specialties is ready for delivery, and contains a complete assort-ment of our preparations. A copy will be sent to any Chemist on application to Yours very truly,

SEABURY & JOHNSON, I and 2 Australian Avenue, London, E. C.

OUALITY IS OF FIRST IMPORTANCE



WRIGHT'S

See TESTIMONIALS of ENTIRE MEDICAL PI SS and from LEADING DERMATOLOGISTS.

The Practitioner, of September, 1881, reports a lecture titled, "Recent Advances in the Therapeutics of Diseases the Skin," by W. A. Jamieson, Esq, M.D., &c. The fowing is an abstract therefrom: — "Itching, which ow its

origin to too slow a current of blood, of which the most typical example is that seen in Eczema connected with varicose ves of the leg—but to the same category also many examples of Pruritis Scroti, Labiorum and Ani may be referred—is best reliev by careful flannel bandages, well applied suspensory bandage and

LIQUOR

careful flannel bandages, well applied suspensory bandage and laxative salts or mineral waters, which unload the rectal eins by freeing the portal circulation, combined locally with eak tarry lotion, one of the best of which is Wright's I nor Carbonis Detergens, a well-made alcoholic solution of Coal Tar, suitably diluted."

From the Lancet, Dec. 22nd, 1866:—"In our hands it has been a most effective agent in skin diseases, especially the chronic eczematous class; and one case psoriasis, which had resisted all other kinds of treatment, speedily got well und application of the Liquor Carbonis Detergens. We esteem it a very valuable addition to our list of skin remedies."

From the Medical Times and Gazette, January 19th, 1867:—
"We have more than once called attention to the value of this remedy in chronic eczema."

GARBONIS

Kept in stock at sold by all Druggists (Violesale and Retail) thigh out the United Kirlom and Colonies.

From the British Medical Journal, Sept. 22nd, 1871:—"We have tested it, and can affirm its value as a detergent ent. We consider the Liquor is an article of great utility."

Proprietors:

W. V. WRIGHT & CO., Southwark Street, London.

DETERGENS.

UMNEY'S

Made from Bark of Cinchona Succirubra, as grou in Government Plantations of British India.

At the Medical International Congress London the

At the Medical International Congress, London the Indian Bark was declared to be the bark of the fure.

Extensively used in Private and Hospital Practice, on account of its Elegance, Medicinal Value, Moderate Cost. See Opinions of the Medical and Pharmaceutical Press, and testimony as to its superiority over all other Fluid Preparations of Cinchona.

FLUID EXTRACT

Price 10s. 6d. per lb.

To be obtained of all Druggists (Wholesale and Retail) in the United Kingdom.

IN ORDERING SPECIFY "UMNEY'S."

CINCHONA.

Lancet.—"An excellent preparation—contains all the alkaloids of the Bark."

Medical Times and Gazette.—"An excellent, elegant, reliable, and very convenient preparation."

Medical Press and Circular.—"Used in Hospital and private practice with the most satisfactory results."

Pharmaceutical Journal.—"Excellent preparation furnishing the constituents of the Bark in a concentrated form."

Chemist and Druggist.—"Pharmaceutically worthy of the valuable medicine which it represents."

WRIGHT, LAYMAN & UMNE

SOUTHWARK STREET: LONDON, S.E.